THE CARE OF INFANTS IN INDIA.

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INFANTS IN INDIA.

A Work for Mothers and Aurses

TIPON

THE FEEDING AND REARING OF INFANTS

G. MELLIN.

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PREFACE.

HE excessive mortality among infants, both native and European, in India, especially during the first few years of life, has convinced the writer of the urgent need for a better knowledge concerning the management of babies in India. This waste of life, with all its attendant sufferings, is in a large measure to be traced to errors which arise from ignorance of the simplest hygienic rules of dietary and

The areas to be travelled over in India are often so great that it frequently happens that a young mother cannot immediately secure the attendance and advice of a medical man. It is in such cases that this work may prove a valuable aid to the Anglo-Indian mother, but it is not intended, nor must it be regarded, as a substitute for medical aid. so much ignorance prevails upon the subject of the management and feeding of young babies, we have endeavoured to answer in a simple form the following questions, which sooner or later must suggest themselves to every young mother:-

- 1. What are the functions of an infant's food?
- 2. What are the ill effects produced by improper food?
- 3. What are the good results gained by rational feeding?
- 4. Variations to be introduced in cases of emergency.
- 5. The treatment of minor ailments.
- 6. The clothing of infants.

nursing.

7. The hygiene of the nursery and the duties of the anah.

But few remarks have been made upon infantile diseases, as their treatment is quite outside the objects of this little work, and belongs to the duties of the medical practitioner. It is held by the writer of these pages that the custom of performing experiments with quackeries upon young children is most reprehensible.

We must acknowledge the valuable assistance which we have derived from Dr. Cheadle's "Artificial Feeding of Infants," Dr. Eustace Smith's "Wasting Disease of Children," and the works of Foster, Landois and Stirling, and Jane Walker.

For the illustrations in the earlier part of the book we are indebted to the publishers of Pilley's "Physiology."

To the grateful parents who have furnished us with the evidence which we have been able to employ in Part II. of this work we tender our most sincere thanks; nor are we less indebted to those hundreds of others who have given us the support of their testimony, but whose evidence we, from want of space, are unable to include.

J. P.

January 1895.

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OF

INFANTS IN INDIA.

CHAPTER I.

INTRODUCTION.

Importance of Study of Hygiene of the Nursery.

HE rearing of healthy and vigorous children under the influence of a tropical climate is a question of the deepest interest to every mother in India, and our purpose will be to state those measures which should be adopted in order to secure the happiest and healthiest conditions during early life. The sickness and high rate of mortality among Anglo-Indian infants is in part to be accounted for by the absence of home surroundings and by the existence of an

absence of home surroundings and by the existence of an environment foreign to the parents. But in a large measure, also, many of the early deaths are essentially preventable, and are the result of carelessness and ignorance.

Young mothers at home are only too often entirely ignorant of the hygiene of the nursery and the simplest scientific facts about the feeding and care of infants; but, at the same time, as a rule, they have the advantage of experienced relations at hand to turn to for advice, and the ready aid of good nurses and skilful medical men.

In India, in spite of the increasing means of communication, a young mother at any isolated station is often at the mercy

of an ayah, or ignorant servants. A wise mother will never be led by an ayah, no matter how reliable she may appear. The little life at stake is hers to preserve, and hers alone is the responsibility of informing herself of the conditions most favourable for the health of her child. The questions upon which a young mother should arm herself with knowledge embrace all those conditions which will determine the well-being of her baby; these include simple hygienic rules about food and drink, cleanliness, good water, clothing, and protection from the sun and night air.

The object of this little work is not to frighten mothers by stating the responsibilities and difficulties before them in India, but rather to enable them to cope with the situation with confidence, and to give such useful hints and advice as will buoy them up with a feeling of security, in periods of difficulty

and danger.

Every mother has seener or later forced upon her notice the question of the selection of an artificial food for her baby. It may be that during the earlier periods of maternity she can supply her child with food, but a time comes when a substitute for mother's milk must be found. In India the tendency and ability of mothers to suckle their babies seems to be decreasing. and it therefore, in many cases, becomes necessary for mothers to employ some artificial substitute for breast milk. In this matter a mother may sometimes be guided in the right direction by her own knowledge, or the advice of friends with greater experience; but very often young mothers in India are ignorant of those simple truths which should guide them in the feeding of their little ones. Those blind rule-of-thumb practices, which are only too frequently followed by the ayah in feeding young children, cost thousands of infants' lives annually. Vital statistics show, that of the children born alive, less than three-fourths survive to the age of five years. large proportion of these early deaths are due to infantile diseases, such as whooping-cough and bronchitis; but a larger number may be traced to diarrhora, dysentery, convulsions, and wasting diseases. This frightful mortality among infants, during the early years of life, is undoubtedly mainly due to errors in dietary and clothing; and the chief cause of this enormous amount of preventable disease and loss of life, with all its attendant pain and suffering, is to be found in the use of improper artificial foods.

When we take into consideration the number of sickly

children who survive with enfeebled constitutions, and all the loss and misery which is involved, the importance of a wider knowledge of the means of prevention becomes at once apparent to all. This enormous sacrifice might be averted, these victims of disease saved, by improving sanitary conditions, judicious clothing, proper feeding, good medical treatment, and generally enlightened parental care. It is with the earnest endeavour to diminish this awful waste of human life and to reduce this enormous amount of preventable suffering, that the following pages have been written. For it is only with improved knowledge of the causes of the sickness and ill-health of babies, that young mothers may hope to avoid those causes which tend to rob them of their offspring.

It is obviously the duty of every mother to inform herself of the simplest facts of digestion and nutrition of babies, and the elements of nursery hygiene. The life and well-being of an infant are determined by wholesome food, good clothing, and proper sanitary conditions, and a mother should seek to gain knowledge of those simple hygienic laws which determine the life and health of her baby, a knowledge of which will often enable her to rear a strong, healthy, and vigorous child from even the weak and sickly; whilst ignorance of the same may lead to pain and suffering, and may endanger the life of her little one. The materials for the knowledge exist: they are the hitherto unrecorded experiences of many mothers and medical men who have spent years in India, and they are to be found scattered about in the pages of works on hygiene and physiology. For a young mother in India this information is practically inaccessible, and, as a rule, mothers are ignorant alike of the natural laws which govern the needs and powers of a baby, and of the exact nutritive value and suitability or otherwise of the various materials which are on the market and sold as artificial foods. In consequence, antiquated practices are followed, without a knowledge of the causes at work for or against the result wished for.

In the matter of artificial feeding the exact nutritive value of the food selected is not estimated. If one does not agree, another is substituted haphazard, not because the components are known to be in accordance with nature's requirements and the peculiar conditions of the baby, but because some other child, perhaps of a different age and constitution, appears to have done well on it. It is very common in India for a delicate baby, with a stomach quite unfit for the digestion of the heavy,

coarse curd of cow's milk, which sets up purging and vomiting, forthwith to be put on a diet of goat's milk. Now, although goat's milk is more nearly allied to human milk than cow's milk, yet the casein which it contains coagulates in heavy, leather-like masses. Therefore, goat's milk is quite unsuited to meet the special difficulties of such cases, and rather than doing good it makes matters worse than before.

The advice given is mainly intended for Anglo-Indian mothers, but it is hoped that this little work will receive the attention, not only of such, but also that of the native ladies of high caste and better educated classes. The question of sound medical advice and good treatment for native ladies is being ably coped with by the Zenana Mission movement and the National Association for supplying Medical Aid to women in India. For these ladies hospitals are being established; and either in them or at home native ladies have now the opportunity of receiving the best possible medical treatment for themselves and infants at the hands of their own sex.

The work of introducing a knowledge of hygiene and preventative medicine among the bulk of the native peoples of India, where the women, for the most part, believe that almost all diseases are sent by angry gods, powerful demons, or evil spirits, is very difficult indeed, and advances can only be made in this direction side by side with religious and general enlightenment. The splendid work which has been undertaken by the earnest and devoted workers of the Zenana Missions is making its influence felt. And it is by increased knowledge of the laws of life and health, and the disease-producing causes, that we may hope to bring about an improvement in the existing condition of things. The efforts made in this direction are producing their effects upon women of the higher castes who have been brought under its influence. and this good work must in time make itself felt among women generally; but, as in all things in the East, progress is but slowly made. The object of the publication of this little work is to aid in the spreading of the elements of that knowledge upon which depends the preservation of health and prolongation of life.

CHAPTER II.

THE FUNCTIONS DEVOLVING UPON FOODS IN BABYHOOD.

EFORE entering upon the important question of how to feed an infant, let us first consider the condition of a baby at birth, and the nature of its development

and growth during the first few months of existence.

Rate of growth of a baby.—A healthy baby, if born at its full time, weighs a little over seven pounds, and measures about eighteen inches. During the first three or four days of its life it will lose weight, often as much as from four to six ounces. After this, if it is being properly fed, it will increase in weight day by day as its bones, flesh, nerves, and other structures are developing, till at the end of the first year of its life it will weigh eighteen to twenty-two pounds; in fact, during this period it will double or even treble its weight. This great increase in weight is quite unparalleled at any other stage of existence, and these facts will enable us to gain some idea of the enormous amount of work which must be performed in changing dead food into growing body.

The rapid transformation of food-stuffs into living baby teaches us that care should be bestowed upon the selection of food best calculated to nourish the body, and yet easy of digestion. A very large proportion of the babies who die during the first year of life are cut off by diseases which arise in connection with the stemach and bowels.

During this stage of life, at a very rapid rate the bones become more and more solid, the brain, muscles, lungs, and other organs rapidly increase in size, and they each require therefore large quantities of suitable nourishment to allow of their growth; on the other hand, during this period of rapid growth there is comparatively little activity of mind or body, the infant's time being largely taken up in sleeping and taking nourishment.

Whilst growth and development are going on at such a rapid rate, the milk which is supplied by the mother to breastfed babies furnishes the materials from which nerve, flesh, fat, bone, etc., grow.

The natural food of a young baby is unquestionably the

milk of a healthy mother, for this contains all the food substances which are required to build up the body. But it often becomes necessary for mothers in India to bring their babics up by hand, and then some artificial food becomes at once essential. That which is most like mother's milk in character will be the best. Arrowroot, cornflour, bread, and starchy foods generally are quite incapable of supplying material for nourishment and growth at this early stage of life, for they are entirely unlike milk, both in composition and character.

MOTHER'S MILK consists of water in which four classes of bodies are held, viz., albuminose, fatty substances, milk-sugar, and salts

The albuminose material is so called from its resemblance to white of egg, the name being derived from the Latin word albus, white. This matter is mainly present in the form of casein, which yields white clots or curds. Casein of cow's milk is the substance which is largely used in making cheese. Albumins furnish materials to the blood which are employed for building up the living and growing structures of the body. Deficiency of this albuminose matter in a child's diet makes itself soon evident; the child's growth is interrupted, it becomes flabby and soft, feeble and pallid, and so its vital power and disease-resisting strength become reduced.

The fatty substances form the cream of milk. When milk is taken as food, the fats furnish to the blood materials which are required for the formation of brain and nerve, and which undergo chemical changes in the body, and so give rise to the

production of heat.

The milk-sugar is allied to, but not identical with, canesugar; it is known as lactose, from the Latin word lac, milk. Lactose supplies the blood with substances which are used in the maintenance of the uniform temperature, and which are also concerned in the formation of fat. From its chemical composition milk-sugar, like all other varieties of sugar, belongs to a class of bodies termed carbohydrates.

The salts of milk yield to the blood mineral matters required in the formation of the bones, and different kinds of saline substance necessary for the life and the growth of all other structures. Salts of iron, magnesia, lime, potash, and soda are essential, and phosphate of lime seems to be necessary for the formation of most tissues. Probably no growth can take place without alkaline phosphates, for phosphorus is found as a constituent of all forms of living things, from the highest

animal to the lowest vegetable, and none can grow in a medium deprived of it.

The watery part of milk is the agent by which the dissolved products of the various other food-stuffs are carried into the blood stream.

Since the above are the materials furnished by nature to build up the growing baby's body, next comes the question of the proportion of each. How much albuminoid matter does a child require? How much fat? How much milk-sugar?

COMPONENTS OF HUMAN MILK.

In 100 parts.		By 1 a	andoi rling		Gorup- Besancz † Average,
Water	•	87.24	to	90 58	88.50
Carbohydrate (Lactose)	• ;	3.15	to	6.09	4 36
Fat	• •	2.67	to	4.03	2.66
Albuminose Matter .	. !	2.91	to	3.92	3.92
Salts		0.14	to	0.28	0.13

It has been ascertained as the result of numerous experiments, experiences, and observations, that in order to afford perfect nourishment to the body, food must contain materials drawn from each of these five groups of food substances. They are as essential for adults as for children, and no food can be perfect from which one of these is absent.

We may lay it down, therefore, as a rule that an artificial food for a baby should contain the following food-stuffs in the proportion given:—

Water				88-90
Lactose (or allied body)				4 36
Fat	•			2.66
		•		3.92
Salts	_	_		0.13

Normal mother's milk is the best food for infants, on account of its digestibility and the ease with which its products

^{*} Landois and Stirling's Physiology.

⁺ Cheadle's Artificial Feeding of Infants.

may be assimilated. Unfortunately, however, many mothers in India are unable to suckle their babies; in such cases the best substitute should be sought.

The following conditions necessitate the adoption of some

artificial food :-

- Where the quantity of the breast-milk is deficient. In such cases
 the child will take the breast ravenously, but, failing to get
 satisfied, soon stops and cries. In a few days the infant
 becomes peevish, pale, and thin, and soon exhibits the evidences of under-feeding and malnutrition. Such conditions
 always predispose a child to disease.
- 2. Where the quality of the milk is poor it ceases to rank as food, and by continuing to suckle a child with it the stomach is filled with a fluid which is incapable of nourishing him, the flesh becomes flabby and sort, and the baby suffers from wind, diarrhea, or constipation.
- Where the mother is suffering from consumption, or inherits a
 tendency to this form of disease. In such cases the weight
 of evidence tends to the conclusion that the germs of the
 disease may be transmitted to the child through the mother's
 milk.
- 4. Where the mother is suffering from any other disease, or is in a delicate state of health, and is in consequence taking medicines of any kind; for in such cases the milk becomes modified, and will disagree with the child.
- 5. Where the mother's position in life or occupation interferes with the full performance of the duties of nursing. In which case the feeding may become irregular, and the milk will vary in character, and consequently disagree with the baby.
- 6. In all cases where circumstances occur which render the supply of natural food unavailable, as, for instance, the mother's death, or from the obstruction of retracted nipples.

As has already been said, a mother ought always to try to suckle her child herself; but when she is unable to do so from any of the causes mentioned above, then some form of artificial feeding becomes necessary, and that method will be most successful, and attended with the best results, which most nearly conforms with the natural conditions of dietary.

Formerly the only safe alternative was the wet nurse, and in India even to-day this is the method resorted to in numberless cases. This plan is open to so many objections, that in England the system has been practically stamped out by a healthier condition of public knowledge. A native wet nurse is something to be avoided by a mother in India, as it is almost impossible to discover the antecedents of an ordinary woman.

Nurses in India are very fond of giving condensed milk, but we have observed that children brought up entirely upon this form of food are not so hardy or full of flesh as children reared on a more natural diet.

"There is another class of cases where nutrition is equally unsatisfactory, although the supply of food is liberal enough. These cases occur where weaning is premature, or where the child has been brought up by hand, and the kind of food chosen to replace the natural nourishment is injudiciously selected, so that the limited digestive power of the child is unable to convert it into material necessary for the growth and development of the tissues. Here the farinaceous diet. often substituted for the mother's milk, although nutritious enough in itself, yet supplies little nutriment to the infant. A child is not nourished in proportion to the bulk of food he receives into his stomach. Only the food which he digests can possibly nourish the body. Weakness in a child otherwise healthy, while it shows a deficient degree of nutrition, and therefore calls for an increased supply of nourishment, yet at the same time calls for greater care in the selection of the kind of food. There is a difference between food and nourishment. The very fact that the secretion of true saliva in the young child does not become established until after the third month, seems to indicate that before that ago farinaceous articles of diet are unsuited to the infant, as salva is one of the most important agents in the digestion of starchy foods " *

The food best adapted to nourish and build up all parts of a young baby's frame must therefore comply with the following conditions:—

- It must contain food substances which represent the components of mother's milk.
- 2. These food substances must be in the proper proportion.
- It must be in a form suited to the simple conditions of digestion during infancy.
- 4 It must be fresh, and free from all taint or sourness!
- The total quantity given during twenty-four hours must be such as to represent the nutritive value of from one to three pints of human milk, according to age.

In selecting an artificial food, the Arst golden rule to keep

^{*} Eustace Smith's " Wasting Diseases of Children."

well in mind is, then, that it should contain all the food substances required in the proper proportions.

Three-fourths of the infants who die under the age of one year are those fed artificially, and most of these deaths are solely attributable to unsuitable food. A thriving baby, fed upon the proportions of food given on pp. 37 and 38, will appear happy and contented. The scales are the best means by which a baby's progress may be estimated. After the first three days, if kept upon a well balanced and suitable diet, it should increase in weight at the rate shown below.

i				 	and the second second		;				- ~	
1	Ist	Mon	th		13 to 15 oz	13 (7.	\mathbf{s}	lb.			
i	-2nd	٠,			20 24	30	.,	9		14	OZ.	
ì	3rd	,,			24 ., 30 .,	27	i	11	.,	- 9	,,	١
	4th			٠,	30 , 34	26	.,	13	••	3	,,	!
1	õth	,,			34 36	21	.,	14	,.	- 8	••	8
ï	6th	••			36 ., 40	20		15	••	12	.,	1
,	7th	**			40 ., and	17	,,	16	٠,	13		- ;
	8th	••			npwards.	23	.,	14	••	4	٠.	
į	Heli	**			**	22	••	19	,,	10	٠,	
!	10th	٠,		- 1	* *	20	**	20	٠.	14		
ì	11th	11		- 1	**	11	••	21	,,	9		
,	12th	,,			**	7	••	22				

CHAPTER III.

HOW FOOD NOURISHES THE BODY.

INCE the duties which devolve upon the various foodstuffs during all periods of life are as follows:—

- 1. They build up the growing structures of the body:
- 2. They renew and make good the waste which goes on throughout life;
- They supply the materials which are used in the production of heat and force.

And since, also, the components of food in a more or less altered form must find their way into the blood before they can possibly discharge these duties, it becomes at once a matter of interest to every mother to know how the simplest food taken by her babe, even mother's milk, may become in time the blood, and then the flesh and bone and nerve of her child.

Although our primary object is to explain how the digestive changes in an infant fit food products to enter the blood, since we propose also in the latter part of the work to deal with the feeling of invalids and nursing mothers, we shall treat the subject from the broader standpoint. It must be borne in mind, however, that just as the food supplied by nature for a baby is simpler in character than that of an adult, so also the digestive

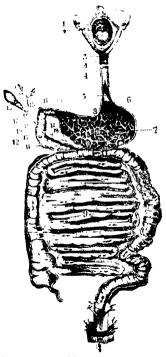


Fig. 1.—Organs of Digestion: 1, mouth; 2, tongue; 3, 4, 5, gullet; 6, gulle opening into stomach; 7, cardiac end of stomach; 8, lesser curvature of stomach; 9, small intestine; 10, of enting of the pare-eatic duct; 11, 12, small intestine; 13, gall bladder for storage of bile; 14, hepatic duct through which bile flows from liver into intestine; 15, hepatic duct from liver; 16, opening of hepatic duct into small intestine; 17, opening of pancreatic duct into small intestine; small intestine; 18, pancreas.

changes which the food-stuffs undergo before passing into

the blood are less complex.

Digestion is the name given to all the processes which take place in the body by which the constituents of foods are prepared to enter the blood. The structures which are concerned in bringing about these changes are termed the organs of digestion. These organs include in the adult: the alimentary canal (see Fig. 1), the mouth, teeth, and salivary glands, the liver and pancreas.

In the adult stage the food is masticated in the mouth by



Fig. 2.—The Salivary Glands; α, b show position of those glands.

the aid of the teeth and tongue: and starchy matters, which are so largely present in vegetable foods. are changed by saliva into dextrin, dextrose, and malt-Whilst starchy bodies are insoluble in water, and therefore cannot pass into the blood, the maltose produced is soluble. The active principle of saliva, which performs this important work of fitting starch to enter the blood, is not developed in young children. therefore starchy foods cannot be digested.

The salivary glands which secrete this active digestive

fluid in the adult are shown in Fig. 2. The starch-digesting power of the saliva does not begin to develop until about the tourth month after birth. Nature supplies mother's milk as the natural food of a young baby, and since no starch or allied body is present in mother's milk the digestive agent for starch is not present in saliva at this early stage of life, and it is only gradually developed about the time that the teeth begin to make their appearance. Starchy foods are therefore starvation foods for young children.

In ordinary digestion, at periods beyond early infancy, the food having been masticated in the mouth, and its starchy components partially changed by saliva, it is passed into the gullet (see Fig. 1), and down this tube it is conducted into the stomach.

In the stomach a fluid is made from blood known as gastric juice: this body possesses the power of changing the albuminose constituents of foods into soluble bodies known as peptones. The stomach has muscular walls which keep the food in



Fig. 8.-Interior of stomach with the mucous membrane which secretes gastric inice from blood.

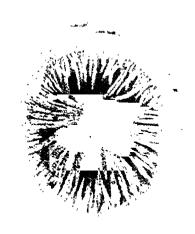


Fig. 4.—Portion of muscular coat of somach which keeps the contents of the organ in motion during digestion.

motion so that all parts are brought into contact with the juice which is poured out by the membrane which lines the Here milk is curdled in a baby's stomach, and in the case of cow's milk the thick flocculent cheese-like casein which is produced often gives rise to such irritation as to cause

vomiting. From stomach some of the dissolved derivatives of food pass directly into the blood-vessels which very abundantly distributed to the thin membranes which line this organ (see Figs. 3 and 4).

From the stomach the Ωŧ the food residue passes into the small intestines, where it is subjected to the action of the fluids which are poured into the intestines by the pancreas and liver. The pancrentic juice contains several active agents Fig. 5.—Section through the small intestines, which produce changes in showing the villus coat by which the tube is lined and the blood-vessels. the components of foods:



one curdles milk, another dissolves albumins, a third converts the remaining insoluble starch into soluble dextrose and maltose, and a fourth reduces fatty substances to a very

The bile which flows from the liver into the small intestine assists in a general way the digestive work of the pancreatic juice. In the adult stage, then, the residue of starchy and

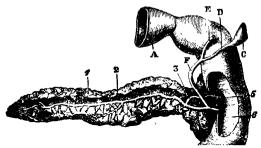


Fig. 6.—Pancreas and intestine. A, end of stomach; 1, 2, 3, the tube along which pancreatic juice flows into the intestine; c, the gall bladder; p, the duct from the gall bladder : E. the duct from the liver.

albuminose food-stuffs which has escaped the action of saliva and gastric juice, may be digested and made fit to enter the The digestive principle of pancreatic blood in the intestines.



Fig. 7.—Highly magnified view of the villi of the small month. constituents of the food pass. Each villus is supplied foods, when given with a perfect network of blood-vessels. intestines and the blood-vessels into which the dissolved

juice, which starch into verts maltose, is known as pancreatic diastase. This active body is not present in the pancreatic juice of a baby during the first few months of life. In young infants, therefore, starchy food - stuffs cannot be digested in the intestines any more than they can be dissolved in the

at this early period

of life, set up such irritation of the digestive canal that the substances are hurried unduly along before even the other food-stuffs present besides starch can be digested and absorbed.

The dissolved derivatives of foods which result from the action of the digestive juices upon the various food-stuffs chiefly find

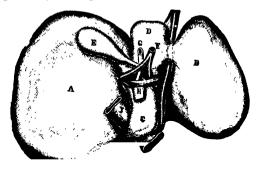


Fig. 8.—The liver showing (A, B, C, D) the lobes; H, the hepatic vein.

their way into the blood, which flows through the blood-vessels of the lining membrane of the stomach and intestines (see

Figs. 5 and 7). This blood becomes in consequence so modified that it is quite unlike the ordinary blood of the body. The blood, enriched by the dissolved materials derived from the foods, flows from the walls of the stomach and intestines through vessel a. known as the portal vein into the liver: in this organ it is considerably changed and made fit to join the general stream of blood.

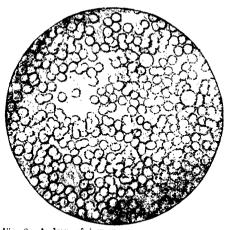
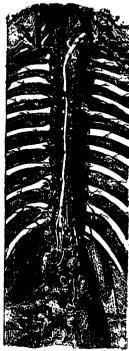


Fig. 9.-A drop of human ____, ____showing corpuscles; the larger bodies are corpuscles.

The finely divided fatty substances derived from the digested foods soak through the thin velvet lining of the small intestine (see Fig. 7) and mainly pass into small tubes which are present in the little villi. These tubes are known as lacteals; they

unite, forming larger and larger vessels, until at length they



ig. 10.—The thorncic duct through which the fatty materials derived from food chiefly find their way into the blood stream.

The blood, which is from time to time enriched by materials derived from foods in the manner above described, consists of a clear colour- Fig. 11. Diagram to show the less liquid in which an immense number of very minute coloured bodies, known as corpuscles, float with a smaller number of colourless bodies known as white corpuscles (see Fig. 9).

pour their contents into a large quill-like tube which runs up the back portion of the body, as shown in Fig. 10. This tube passes through the back part of the chest or thorax. and is therefore known as the thoracic duct. It opens into the great veins on the left side of the neck. Thus, while the dissolved derivatives of the foods chiefly find their way directly into the blood stream of the membranes of the stomach and intestines, the fats pass indirectly into the blood by way of the lacteals.



course of the blood in circulation. The arrows indicate the direction; s, t, represent the circulation in the stomach and intestines; and u, the blood vessels in the liver. The central structure represents the heart with its four ch

When a drop of human blood is placed on a slip of glass

and examined by means of the high power of a good microscope, it presents the appearance shown in Fig. 9. The minute bodies, known as red and white blood corpuscles, may be distinctly seen in the illustration.

After having undergone certain changes in the liver, the blood returns with the stream from the lower part of the body to the heart (see Fig. 11. w).

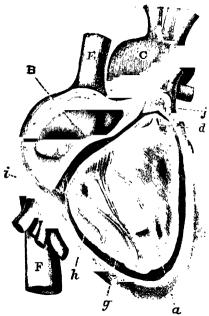


Fig. 12.—Right side of the heart showing the chambers, valves, and great blood vessels. E and F, the two great veins of the body through which impure blood passes into the heart; d, the opening of the pulmonary artery through which blood flows into the lungs.

Blood enters the right auricle, a chamber at the top on the right side of the heart; it next passes into the right ventricle, by the muscular walls of which it is forced into the lungs (see Fig. 11, g, h). From the lungs the blood flows on into the left auricle and then passes into the left ventricle, by which it is forced to all parts of the body. As the blood is forced through all the blood-vessels by the heart, it passes from arteries into small capillaries, and then into veins, and so back

to the heart. During the passage of the blood through the small and thin-walled capillaries, which are present in nearly all parts of the body, it supplies material capable of nourishing the living growing structures.

This stream of nutritive material from which all the structures of the growing baby derive the material for their growth and energy is kept in constant motion during life by

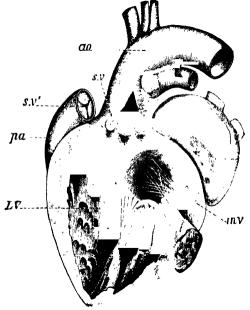


Fig. 13.—Left side of the heart, showing the chambois and valves. I.A, left auricle: Lv, left ventricle: ao, norta through which blood flows to all parts of the body; mr, the mitral valve which guards the opening between the left auricle and ventricle, and prevents the return of blood to the auricle during contraction of the ventricle.

the heart. Materials in healthy and well-fed infants are continually being taken up by this blood from the digestive canal, and just as continually taken out of it by the tissues of the body. In the course of the circulation the blood passes through the lungs, skin, and kidneys, where certain waste materials are removed from it, and ultimately cast out of the body.

CHAPTER IV.

MILK AS FOOD FOR INFANTS.

T is only of late years that the question of preparation and adaptation of an artificial food to the peculiar digestive conditions of an infant has been scientifically studied. With a wider knowledge of physiological laws, and a deeper insight into the composition of foods and the changes they undergo, broader and sounder principles have been enunciated; which are founded upon a more exact knowledge of the properties of human milk and of the structure and action of the digestive organs of an infant.

Healthy mother's milk, we have seen, may be regarded as the

ideal and perfect food for a baby: an artificial infant's food must therefore resemble this very nearly both in composition and properties. All such food materials as arrowroot, cornflour, potatoes, bread, and starchy or farinaceous foods in general, no matter how carefully they may have been prepared, act at this early period as so many poisons.

The high death rate among infants in India during the first year of life is to be mainly traced to the frequency with which such cheap farinaceous starvation

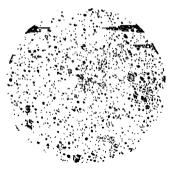


Fig. 14.—Milk as seen under the microscope, highly magnified, showing fat globules and casein.

foods are given at this stage. In certain cases where vigorous and healthy infants have survived the use of such artificial foods, the credit is rather due to the nutriment derived from the milk, etc., which is added, than to the farinaceous materials themselves.

Only those substances which are soluble can pass from the digestive canal into the blood stream; starch being insoluble must be changed by certain of the digestive juices into soluble bodies allied to sugar, before it can possibly enter the blood stream. For very young children starchy foods are of no value, and in most cases they are directly harmful, for the simple reason

that the ferments which are necessary for their change into soluble substances are not present in their digestive juices.

Mother's milk, the natural food of a very young infant, contains no starchy matter, but a variety of sugar known The starch of vegetable foods is converted into a kind of sugar in the body of the mother beforehand. Nature. therefore, does not provide at this early stage of life any material for the digestion of starch. Although nature has not endowed infants with the power of using starch as a food. and this substance cannot possibly serve as nutriment for infants, but rather as a poisonous irritant, yet most artificial foods, with profound indifference to the teaching both of physiology and chemistry, have starch as their basis.

A vegetable ferment, known as diastase, present in malt, will

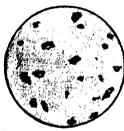


Fig. 15.-Mellin's Food mixed with water, as seen under low

produce a similar change in the condition of starch to that which is brought about by the natural digestive juices in man, after the period of early infancy. Advantage is taken of this fact in the manufacture of Mellin's Food, in which preparation the starch of the materials employed is entirely converted into such soluble products as can readily be made use of in the body of a baby.

The immense importance of securing mich microscope. The small irregular granules are a non-starchy food for young babies becomes at once apparent; but in

consequence of the many devices which manufacturers have of masking the real nature of their preparations, it is evident that it would be an advantage for every thoughtful mother and nurse to know a simple method of ascertaining the presence or absence of this material. The presence of starchy matter in an artificial infants' food may easily be detected by any nurse or mother who will take the trouble to perform the following simple experiments:-

Mix and heat a very small quantity of the suspected food with water, allow it to cool, and then add a few drops of a solution of iodine, which may be obtained from any chemist; if the mixture turns blue, or becomes so dark as to appear black after the addition of the iodine, know that starch is present, and discard If, on the other hand, the substance is simply stained yellow or brown by the iodine, then starch must be absent.

The presence or absence of starch may also be determined by microscopic examination, for the starch grains are of a peculiar structure, and may, in consequence, be identified (see Figs. 17 and 18).



Fig. 16.—Section of Wheat showing wheaten starch as seen under the microscope.



Fig. 17.—Starch granules as seen under higher magnifying power of the interescope.

It should be remembered that the digestive organs of an infant are exceedingly delicate, and liable to be deranged by apparently trifling causes; but a diet which conforms with the following conditions has been proved to be attended with satisfactory results:

- 1. The food must contain the substances required for the nutrition of all parts of the baby frame in the proper proportion.
- 2. The constituents of the food selected should be in a suitable condition, i.e., in such a form that the infant is able with ease to digest and assimilate them.

All milks resemble each other in general composition, but the proportions in which the same constituents are present vary. The following table shows the comparative composition of human milk with others which are employed in feeding infants:—

In 10	0 Par	ts.		Water.	Albumins.	Fats.	Lactose.	Salts.
Human	Milk		•	88.90	3.42	3.33	4.55	0.21
A88'8	,,			89 01	3.57	1.85	4.50	0.55
Cow's	**			87.5	4.21	3.82	3.67	0.71
Goat's	"			86.85	3.79	4.34	3.78	0.65
·				1			,	

In theory diluted cow's milk very nearly resembles mother's milk in composition, but there are several objections to the use of ordinary cow's milk or buffalo cow's milk.

- Human milk contains more milk-sugar than cow's milk; the former contains one-seventh to one-fifth more of milk-sugar than the latter.
- 2. Cow's milk is more difficult to digest than human milk. The total albuminoid material in cow's milk is about one-third greater than that in human milk. The albuminose substances are of two kinds viz. Casein and Albumin.
- In human milk the proportion of this albumin is greater than in cow's milk. The main difficulty in the digestion of cow's milk by infants is due to the fact that the casein is mainly converted into a curdlike clot in the stomach; here and in the intestines it acts as an irritant.
- 3. Cows' milk is often acid in reaction, whilst human milk is The milk of stall-fed cows has invariably some acidity: but that obtained from pasture-fed animals of the hill stations is usually neutral or alkaline. Milk with an acid reaction is never so wholesome for infants, and very frequently produces derangements of the digestive organs. Nursing mothers should learn how to detect this acid condition of milk, and at the same time understand how to correct it, for such milk is certain to disagree with the baby. The acidity may be tested for by means of strips of paper stained with red and blue vegetable colouring matters which are sold at the chemists' under the name of litmus-papers. A strip of blue litmus-paper should be dipped in the milk to be tested; if it is turned decidedly red this indicates that the milk is acid-such milk should be rejected; but if no better is obtainable, then it may be rendered less objectionable by adding a pinch of bicarbonate of potash, or enough limewater to turn the reddened litmus-paper blue again. Where Mellin's Food is employed with cow's milk it is unnecessary to adopt this precaution.
- 4. Cow's milk is frequently falsified and impoverished by the removal of cream and the addition of water. The addition of water and removal of cream renders milk thinner and less opaque in appearance, and of course reduces its food value and destroys its character.
- 5. Milk is frequently adulterated by the addition of materials to preserve it from decomposition during transit. The least harmful of those commonly employed is perhaps boric acid, eight to ten grains of which added to a pint of new milk will keep it fresh for several days in summer. This quantity of boric acid would render the milk injurious to the child. Salicylic acid has also been employed for the purpose of preserving milk, and this substance appears to be more injurious even than borax or boric acid.

6. Cow's milk, like other highly organised fluids, is very prone to absorb from the air gases and living germs, for the latter of which it acts as a cultivating medium. The milk that a baby takes direct from the breast cannot be contaminated by any atmospheric impurities; but that which has been drawn from the cow and exposed to the air will be found to contain various kinds of non-living and living particles. Of these materials the most objectionable are the living organisms, certain of which cause the souring. Milk on the point of souring is just the worst for babies, for the indigestible curd then rapidly forms in the stomach.

The minute organisms which give rise to infectious diseases may find their way into cow's milk, either from the air, or from water which has been employed for washing the dairy utensils, or from water which has been used in adulterating the milk. Epidemics of typhoid fever, scarlet fever, diphtheria, dysentery, and cholera have been repeatedly traced to milk supplied from places where the disease existed. It seems, also, very highly probable that tuberculosis or consumption may be directly transmitted from a cow through the milk to an infant consuming it. A simple means to counteract the dangers to which the baby is exposed in certain cases, through the use of cow's milk, is to boil it as soon as it comes into the house.

Advantages gained by boiling milk:-

- (a) Living organisms with which the milk may be contaminated are destroyed, and therefore the tendency to fermentation and decomposition is reduced.
- (b) The curd is rendered light and digestible. Formerly the idea prevailed that by boiling milk was rendered indigestible, and the medical advice was that it should be scalded before use, but a wider experience has demonstrated the fact that the casein is broken up and its digestibility considerably increased by boiling.
- (c) Boiled milk will keep sweet much longer than unboiled milk.

STERILISING is a modification of the simple method of boiling which has recently grown in favour with medical men both in Europe and America. Where fresh milk is difficult to obtain, the supply is intermittent, or its origin is of a doubtful nature, or during periods of epidemics, mothers may be strongly recommended to sterilise cow's milk before use. The plan usually adopted of sterilising is to fill a number of pint bottles with fresh cow's milk diluted with water to

the required strength. These are immersed to their necks in a vessel of water, the outer vessel is heated and allowed to boil for about half an hour. The bottles are carefully corked, cooled, and placed aside for future use. By this prolonged application of heat living organisms are destroyed, and the milk keeps fresh and sweet for an indefinite period.

Condensed milk is used to a very considerable extent throughout India. The different brands vary so much in composition that it becomes exceedingly difficult to speak of

the value of this substance in any general terms.

The milk of the ass and the goat more nearly resemble mother's milk in composition than cow's milk; but whilst the former is only to be obtained with difficulty, the latter possesses a peculiar flavour and unpleasant odour; for these reasons they are very seldom used. Neither can be advised for use in India. Another disadvantage of goat's milk is that these animals are often careless and dirty feeders, and, in consequence, the milk yielded is variable in character and usually unreliable. The goat, however, possesses this advantage, that it may be kept by even poor families at little expense, so that where due care is taken with the feeding good fresh milk becomes at all times available.

Cow's milk is the easiest to obtain, and is the best basis of an artificial diet for a baby. As explained above, cow's milk contains more casein, and less water and milk-sugar, than human milk; it becomes necessary therefore to reduce the proportion of casein and to increase the other ingredients mentioned.

Even those children who are fed entirely upon cow's milk are not free from danger. Cow's milk contains a larger quantity of solid matters than woman's milk, owing principally to an increase in the amount of casein. A notable deficiency in the digestive power of infants is the inability to deal with any mass of solid or semi-solid matter. They can only digest solids when in an extremely fine state of division. Some few children are, no doubt, found to thrive upon this diet, their digestive power being equal to the demands made upon it. Others, however, and by far the larger proportion, are not equal to this daily call upon their powers. They cannot digest this mass of curd. Consequently, unless rejected by vomiting, it passes through them undigested; their wants are not supplied, and they starve for lack of nourishment, although swallowing every day a quantity of milk which

would be ample support for a much stronger and healthier infant. Such children become exceedingly restless and irritable.

Cow's milk must therefore be greatly modified before it can so closely resemble human milk in chemical composition and physiological properties as to be suitable for an infant's use.

By dilution with water, the proportion of albuminoids may be reduced so as to represent those in human milk, but the indigestibility of the casein is not in the least overcome, and must be remedied in some other way, since the albuminoids are of the utmost importance in the nutrition of infants as well as of adults. The amount of milk-sugar, already smaller in proportion than in human milk, will be further reduced in the diluted cow's milk, and the mixture will in most cases be acid in reaction instead of alkaline. Heat and force-producing food-stuffs which are represented by milk-sugar are absolutely necessary for life and health. Infants cannot obtain milksugar from starchy food or from cane-sugar, for these, before they can be assimilated, must be changed by the digestive fluids, which are very inadequately secreted by infants. sugar is very liable to ferment in the alimentary canal. giving rise to acid irritating products that impede digestion.

While the amount of ash in cow's milk somewhat exceeds that in woman's milk, it has been found that the relative amount of potash salts is greater in woman's than in cow's milk; this deficiency of potassic salts must therefore be

supplied.

"A more important difference is the denseness of the clot formed by the curd of cow's milk. Ample dilution with water does not affect this property. Under the action of the gastric juice, the particles of casein still run together into a solid, compact lump. This is not the case with milk from the breast. Human milk forms a light, loose, flocculent clot, which is readily disintegrated and digested in the stomach. The difficulty which even the strongest children find in digesting cow's milk is shown by the masses of hard curd which a child fed exclusively upon this diet passes daily from the bowels. This difference between the two milks is answerable for much of the trouble and disappointment experienced when attempts are made to bring infants up by hand; and unless measures are adopted to hinder the firm clotting of the casein, serious damage may arise."*

^{*} Dr. Eustace Smith.

In order, then, that cow's milk may be similar to human milk in chemical composition and physical properties, and therefore be fit for an infant's use:—

- 1. The casein must be made easily digestible and the proportion must be reduced.
- 2. The proportion of carbohydrate must be increased.
- 3. The fluid must be rendered alkaline.

Starch is changed in the body of the mother into a sulstance which yields milk-sugar. In the preparation of the best artificial food for the use of infants in India the whole of the starch in the wheat employed is changed into varieties of sugar outside the baby's body.

Malt contains a ferment known as "diastase," which under proper conditions will convert starch into dextrin, and maltose (malt-sugar), just as starch is similarly converted by the saliva in the adult. Liebig, working upon these lines, suggested that an infant's food should be prepared from wheat, malted barley, water, cow's milk, and a slight amount of potash salts. Correct and ingenious as are the principles upon which it is designed, the difficulty of its preparation is an objection so great as to forbid its use in the family.

Mellin's Food entirely fulfils the conditions which are necessary in making a perfect food adapted for babies of all ages. This food is easily prepared, supplies in suitable form the deficiencies which exist in cow's milk, makes the casein readily digestible, and the milk alkaline. The starch is completely converted into maltose or malt-sugar and dextrin. It is the best substitute for mother's milk, for when it is prepared the components are in the same proportions as in that perfect and natural food. This is very important, since the ratios existing in human milk between sugar, fat, and albuminose material cannot with safety be greatly altered in an artificial food for young babies.

CHAPTER V.

ARTIFICIAL FOODS FOR INFANTS.

ROM the preceding pages we have seen that it becomes absolutely necessary to add some artificial food to cow's milk in order that it may be brought up to the conditions which are necessary for healthy baby life. Various preparations have been placed upon the market which pretend more or less to fulfil the requirements. They may be classed as follows:—

- 1. Purely farinaceous foods. These are purely vegetable products, which consist mainly of starch, and although they may be of more or less value as foods for adults, they are of no value as foods for infants. Farinaceous foods cannot be digested by infants, for the digestive ferments which are present in the adult stage for the transformation of starch into maltose are not present in the saliva of young babies. Foods of this class are worthless as nutrients to babies, and often even worse, for they act as irritants upon the digestive canal, and produce derangement of the same.
- 2. Farinaceous foods with malt. Foods of this class are prepared by grinding wheat and malt, or by mixing wheaten flour or baked flour and malt extract. Such preparations contain, therefore, starch and indigestible matters, which act as irritants rather than as nutrients. Artificial foods of this character are therefore not adapted for young or delicate babies.
- 3. Condensed milk is so variable in composition and character that it becomes difficult to speak of it in general terms. For the following reasons condensed milks cannot be classed as efficient and satisfactory for babies—
 - (a) They are frequently sweetened with cane-sugar, the disadvantages attending the use of which substance have been already referred to.
 - (b) The case in is usually present in an inert and indigestible form,

- (c) In the case of some infants either the milk or some ingredients used to preserve it give rise to intestinal irritation, and the consequence is the child does not thrive, but becomes sickly.
- (d) In India supplies of condensed milk are apt to be old and unreliable.
- 4. Sterilised Milk is largely used in conjunction with other solid artificial foods in America, but the weight of evidence seems to be in the direction of the conclusion that by the continued use of sterilised milk scurvy is favoured.
- 5. Mellin's Food is a soluble, dry extract which is prepared from wheat and malted barley; it consists of dextrin, maltose, albuminoids, and soluble phosphatic, potassic salts, etc.

It is entirely free from starch and cane-sugar. the starch having been transformed into dextrin and maltose by malt diastase, and it is alkaline in reaction. Added to diluted cow's milk it forms a perfect food for the youngest babies, built up on the plan of mother's milk. It supplies materials which assure the digestion of the milk by the infant: it makes the albuminoids of milk. which would otherwise be coagulated into a tough, hard curd in the stomach, light and flocculent, as in mother's milk; in short, the character of cow's milk is so changed by the addition of Mellin's Food that the mixture shows the closest approximation. chemically and physiologically, to human milk.

- 6. Mellin's Lacto-Glycose. Where difficulties exist in obtaining regular supplies of good fresh milk, the preparation known as Mellin's Lacto-Glycose, or Milk Food, which is obtainable throughout India, has been proved to possess the highest feeding value. This food is prepared from fresh cow's milk and Mellin's Food, and it possesses the following advantages:—
 - It is never sour, and is constant inchemical composition and physical properties.
 - The meal for the baby can be prepared with the greatest ease, for the Lacto-Glycose has merely to be mixed with warm water,

- 3. The mode of preparation reduces the danger from disease germs to a minimum.
- 4. Another great advantage which cannot be too highly estimated by military people in India is that it secures constancy of character of dict, when moving from place to place, and thus the evils which arise from change of cow's milk are avoided.

Three distinctive advantages of Mellin's Food will be at once appreciated:—it is easily digested and very assimilable and nourishing, so that, when dissolved and prepared, it is ready for immediate assimilation; it is free from husks and indigestible inert matter that would cause irritation. The value of these properties will be highly appreciated when it is remembered that the digestive organs are simpler, and the necessity



Fig. 18.—Mellin's Food as seen in the dry state under the microscope. Gluten and Albumin Granules, Maltose Grains, and Dextrin may be seen. These dissolve upon the addition of water.



Fig. 10. - Mellin's Food when first dissolved in cow's milk as directed on page 30. The rounded bodies are milk globules, and the small granules of albuminoids.

for readily available nourishment is greater in a baby than in an adult. By the use of Mellin's Food and the exercise of proper care, those diseases which make such frightful havoc among infants—diarrhæa, convulsions, the wasting diseases—have been largely decreased, and may be still further reduced.

Mellin's Food prepared with cow's milk.

Water .		-	٠.			85.34
Carbohydrate						6.95
Fat						2.54
Albuminose Ma	tter					4.45
Salts						0.72

The foods above described all more or less perfectly fulfil the conditions of complete foods, and although of variable composition are of sufficiently general nature to warrant their inclusion under the head of **General Foods**. As pointed out, many are bad for young infants, yet at some other period of life they may be of high value as nutriment.

7. Accessory or Supplementary Foods. The foods

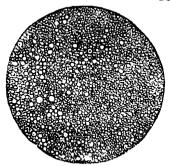


Fig. 20.—Mellin's Emulsion as seen under highly magnifying power of nucroscope, showing finely emulsified fat (cod liver oil).

which are to be included under this head are special, and are intended to supply supplementary nutritive materials required as a result of peculiarities of constitution, or through the changes brought about by unhealthy environment. In this class we may include special forms of oil or fatty food, and mineral foods. Of the former cod liver oil is the best example, and of the latter lime. phosphatic and potassic salts are the best known, preference being given to the hypophos-

Fat is essential as a food, and under certain condiphites. tions of climate and constitution it is demanded by the body in larger proportion than is contained in any food. These conditions are often set up in the case of Anglo-Indian children. The most readily digestible form of fat is cod liver oil: but this has its disadvantages, and it is quite impossible for many sickly and weakly infants to digest the plain oil. As explained on p. 21, fats must be emulsified; that is, they must be very finely divided before they can pass out of the digestive The fat of milk forms a most canal on the road to the blood. perfect emulsion, and the digestibility of this fat depends mainly upon the fine state of division in which it exists. (Compare Figs. 15 and 21.) Mellin's Emulsion of Cod Liver Oil is a milk-like fluid in which the cod liver oil is mechanically and permanently divided. This substance may be regarded as a supplementary food of the highest value for weakly children in It possesses the following advantages:-India.

1. It has a pleasant, creamy flavour.

The emulsification is so perfect that, like milk, it may be mixed
with any neutral liquid, such as milk or water, in any proportion to suit the palate and requirements of the patient,
child or adult.

 Containing hypophosphite of soda and lime, it has a supplementary food value in addition to that imparted by the fat.

CHAPTER VI.

THE ARTIFICIAL FEEDING OF INFANTS.

T is impossible to prescribe exact quantities and proportions of food for a growing baby, and judgment must therefore always be exercised regarding the proportions of Mellin's Food, milk, and water needed by an infant; but the following may be taken as typical proportions for a diet under the age of three months:—

Infants of THREE MONTHS and Under.

Mellin's Food Half a tablespoonful.
Water, hot, not boiling . . . A quarter of a pint.
Milk A quarter of a pint.

(For infants much under the age of three months it may be found necessary to decrease the proportion of milk, so that instead of equal parts of milk and water the proportion of milk to water must be as 1 to 2 or as 1 to 3.)

Preparation of the Food.—The Mellin's Food may be dissolved in hot (not boiling) or in cold water, and the milk may be added hot or cold. A very convenient method is to first dissolve the Mellin's Food in a little hot water, and then add the remainder of the water and the milk.

What, however, well suits one baby may not suit another, and a careful nurse when she sees the child fretting on food of one strength should vary the proportions. At the same time it is most undesirable that changes should constantly be made and experiments tried from caprice. It is a very great mistake when a baby is doing well to be too easily influenced by others into changing its diet.

Promiscuous advice is constantly poured out to young mothers, and they too often are so ready to follow that the baby has not a fair chance. If the child thrives on the above diet then leave well alone.

On the other hand, if the infant is not satisfied, but cries almost immediately after feeding, and exhibits constant restlessness, these may be taken as indications of either the insufficiency of the food, or that it is not rich enough in character. Should these conditions arise, do not start some other food, but merely increase the quantity of Mellin's Food little by little until the baby is satisfied by its bottle, at d grows contented and happy.

As the child grows, and the demands made by his organs

increase, the quantities of Mellin's Food and milk used may be gradually increased so as to meet the requirements of the rapidly developing body. It must be continually kept in mind that a proportion of Mellin's Food sufficient to insure the thorough digestion of the milk must at all times be used.

The temperature of infants' food for all ordinary cases should be about that of healthy living blood, 98° or 100° Fahrenheit. The mother or nurse should always try it herself before giving it to the babe, and when the liquid is comfortably warm to the mouth it is of the right temperature; it should

not be given lukewarm.

The amount of food required by an infant is most conveniently spoken of in terms of fluid ounces. Twenty fluid ounces make a pint (two tablespoonfuls equal about one fluid ounce); an ordinary sherry glass will contain about two fluid ounces.

The quantity of food required at each meal, and the time and frequency of feeding, will vary with the constitution, size, and age of the baby, and under average conditions the following rules should hold good:—

First week give from 1 to $1\frac{1}{2}$ fluid ounce of prepared Mellin's Food every two hours night and day, although, if possible, even during the first week, night feeding should be avoided. During the second week in ordinary cases night feeding may be dispensed with, and thus sufficient continuous repose secured to both mother and baby.

SECOND WEEK to end of first month give from 1½ to 2 ounces of prepared Mellin's Food every two hours from about 5 a.m. to 10 p.m. At the same time, though regularity and punctuality should be carefully observed in the feeding of infants, yet they need not be rigidly adhered to—slight variations in the demand of the baby will occur from day to day.

SECOND MONTH give from 3 to 3½ ounces of prepared Mellin's Food every two or three hours, from 6 a.m. to 10 p.m.

THIRD MONTH give from 3 to 4½ ounces of prepared Mellin's Food every three hours from 6 a.m. to 10 p.m.

FOURTH MONTH give from 4 to 5½ ounces of prepared Mellin's Food every three hours from 6 a.m. to 10 p.m.

FIFTH MONTH give from 5 to 6 ounces of prepared Mellin's Food about every three hours from 6 a.m. to 10 p.m.

Sixth month give from 5 to 7 ounces of prepared Mellin's Food as directed for fifth month.

The Quantity of Mellin's Food to be mixed with milk at different ages.—It is difficult, in fact practically impossible, to give fixed rules applicable in all cases for the preparation of the meal with Mellin's Food, or to prescribe the exact quantity to be given for a meal, since some infants are healthy, strong, and constitutionally perfect; while others are ailing, weak, and without stamina. It is therefore incumbent on mothers and nurses to use their own discretion in preparing the Mellin's Food. Bu a little vatient experiment, the suitable proportions of the dry powder, milk, and water, the right quantity for a meal, and the proper temperature for each individual case may soon be determined: but in all cases it is necessary that an amount of Mellin's Food sufficient to ensure the digestion of the milk should be used. The first sign of indifference, it may be remembered, is a sure indication that the infant has had enough, and the bottle should be at once removed from his sight and not given to him again until the next meal.

Frequency of Feeding.—The frequency with which infants are fed is of importance, as well as the quality of the food. For the first two or three weeks the quantity given at each meal should be moderate; three to four tablespoonfuls every two hours will generally be sufficient. This quantity should be gradually increased as the child grows older, and at the

same time the child may be fed less often.

Care must always be taken that the meals are not too frequent, or too large in quantity. Young mothers are often inclined to overfeed their babies. If the stomach be constantly overloaded, even with a digestible diet, the effect is almost as injurious as if the child were fed upon less digestible food in more reasonable quantities. It is a great mistake to accustom a child to take food whenever he cries. When a child is hungry he must be fed, but all cries are not from hunger, and a mother should learn to distinguish them. Some cries are from thirst, and a teaspoonful of cold filtered boiled water should be given.

Infants of SIX MONTHS and Over.

Mellin's Food . . . One tablespoonful.

Water, hot, not boiling . . Four tablespoonfuls.

Milk Make up half a pint.

Dissolve the Mellin's Food in the hot water by stirring, then add the milk, and mix thoroughly.

As the child grows older, the proportion of milk and the quantity of Mellin's Food may be still further increased; but

when the proportion of milk is increased, the quantity of Mellin's Food must be increased at the same time.

When the infant is to be fed, stir the mixture thoroughly, pour out a sufficient quantity, and warm it to the proper temperature over a lamp or fire; or pour it into the feeding-bottle, and warm by placing the bottle in hot water.

AFTER THE SIXTH MONTH the diet should be somewhat richer in Mellin's Food, and about 6 to 8 ounces should be given at a meal, while five meals in the twenty-four hours will usually suffice. After nine months the yolk of an egg, or a little beef or yeal tea, may be added to the diet.

AFTER THE TWELFIH MONTH, in addition to prepared Mellin's Food, once a day red meat gravy, with a small quantity of fat from the joint, and mashed potatoes or rice may be given.

From twelve to eighteen months or two years the following simple diet may form a valuable guide to mothers:—

Meal 7.30 a.m.—Fine bread sop made with milk; prepared Mellin's Food and bread or oatmeal.

Meal 11 a.m.—Drink of milk with Mellin's Food Biscuit softened with milk.

Meal 2 p.m.-Bread crumbs or rice, or mealy potato and gravy, or lightly boiled egg, bread and butter.

Meal 5:30 p.m.—Bread and milk, or Mellin's Food Biscuit and milk.

Meal 7.30 p.m.—Mellin's Food prepared with milk, about 8 onnees.

Children at this age should not be given tea or coffee or stimulants.

From Two Years and Upwards.

Meal 8 a.m.—About ten ounces of prepared Mellin's Food, two slices bread and butter, and small cupful of well-cooked oatmeal. Tea and coffee should be avoided.

Meal 12 noon.—About three ounces of roast or boiled mutton, chicken, or turkey, mashed potatoes or rice four ounces, and juicy gravy; a slice of bread, and about three tablespoonfuls of custard or rice pudding. Dilute Mellin's Food, prepared with enough salt to make it palatable to drink.

Meal 4 p.m.—About ten ounces of prepared Mellin's Food; two slices of bread and butter.

Meal 8 p.m.—About ten ounces of prepared Mellin's Food, flavoured with chocolate, and a few Mellin's Food Biscuits.

When the milk teeth have made their appearance the child is able to digest some farinaceous food. During the transitional period, when a child is passing from the ordinary Mellin's Food diet, as above described, to a mixed diet, Mellin's Food Biscuits should be given.

Growing children.—Upon the feeding and housing of the child for the first ten years of its life its physical and mental capacity largely depends. During the period of active growth and development of the body a child may be languid, and disinclined to either bodily or mental exertion. This condition often demands food which can be promptly assimilated. Mellin's Food prepared with milk will relieve the languor by supplying nourishment which at once enters the circulation. The directions given here for preparing Mellin's Food need not, as in the case of infants, be followed exactly. The amount of Mellin's Food may be increased or diminished to suit the taste or needs of the child. And Mellin's Food Biscuits may be freely given, for they are highly nutritious and easily assimilated.

Dissolve the Mellin's Food in a little hot water and mix it with the milk. Salt if desired.

Mellin's Food . . . One to two tablespoonfuls;
Milk . . . One half pint.
One egg; a pinch of salt.

Beat the egg thoroughly and add to the Mellin's Food and milk. Sweeten if desired.

As much of either of this mixture as is desired may be taken midway between meals and at bedtime; or at any time when the need of it is felt. It should be sipped slowly, and it is usually most relished when cold.

The milk used in mixing Mellin's Food should be pure, fresh cow's milk, of good quality. Average milk from a herd of good cows is generally more satisfactory than what is ordinarily known as "one cow's milk." Milk containing a large amount of curd (cheesy milk) should be avoided.

The milk should, as a rule, be boiled, for in India the difficulty of keeping it sweet through the night is very great. Boiling reduces the richness of milk and increases its digesti-

bility. For this reason, therefore, in passing from the plains to a hill station it is advisable to boil the milk for the first few weeks, otherwise the richer milk of the hill-fed cows will be very likely to disagree with the baby. As an alternative to boiling the milk may be scalded by placing a cup of milk in a saucepan of boiling water and leaving it to stand in it without putting it on the fire. The milk may also be kept sweet by placing it on ice or in cold water. The milk should be kept in a covered jar so as to avoid contamination, for it will very quickly absorb odours and impurities.

As pure cow's milk may vary somewhat in its constituents and conditions, it has been found that it is sometimes advisable to change the source of supply, milk from one source may be unsuited to the digestive powers of the infant, while that from another source will give entire satisfaction. Milk which shows no impurity by appearance, taste, or chemical analysis, and which agrees perfectly well with an adult, will sometimes disagree seriously with an infant, since the milk from cows varies with different animals and at different times with the same animal; but, on the other hand, the Mellin's Food does not vary; in consequence, any troubles which may arise in this direction will usually disappear at once on changing the milk.

A baby often suffers from thirst; and this may be mistaken for hunger. A little cool diluted milk should be given, a teaspoonful at a time to a very young baby. There will then

be much less danger of overfeeding.

Dietary in sickness and convalescence.—The general rules given above are for ordinary healthy children, but it becomes necessary sometimes to make modifications in the dietary of the child in consequence of actual sickness or ill-health. The conditions which are most likely to arise in India necessitating modifications in the preparation of Mellin's Food will be considered separately. In very young babies the irregularities are most likely to declare themselves in the form of constipation, diarrhea, and vomiting.

Constipation is frequently caused by the inability of the child to properly digest the milk, and therefore a larger proportion of Mellin's Food must be added; in some cases it is advisable to decrease the proportion of milk at the same time. Between the feedings cool water * should be given to the baby, and should be used freely upon the first indication of constipation. Care should be taken to keep the feet and limbs warm.

^{*} Water should always be first boiled.

It is a bad plan to give strong purgatives for constipation, or they tend to lower the healthy tone of the digestive canal. By slight variations in the proportion of the ingredients of the food, it usually becomes possible to correct this distressing condition. Where such means however, fail, then mild saline laxatives, such as phosphate of soda, carbonate of magnesia, or manna, may be given with advantage.

As a rule, the two chief causes of ill-health during the first few months of a child's life are diarrhœa and constipation. The former in India frequently proves rapidly fatal, and con-

sequently means should be taken to check it.

Diarrhea and cholera infantum.—A child who is ill with cholera infantum should be placed under the care of a medical man. Where medical aid cannot at once be obtained, a dose of castor oil, followed by a few drops of sal volatile, will be usually found to check the symptoms. A small dose of castor oil given at the early stage of the symptoms of diarrhea is invaluable. Should these simple remedies fail it may be necessary to give chalk mixture. A band of warm flannel round the abdomen will frequently check diarrhea; but the best remedies are change of diet and air.

In cases of dysentery and diarrhea Mellin's Food proves of the highest value, and the following directions are for the preparation of Mellin's Food only in such cases. When a baby, sick with diarrhoa or cholera infantum, or much reduced by digestive disturbance, cannot retain milk upon his stomach, no hope of relief can be entertained until this is excluded from the diet, since it seems at such times to act as an irritant. such cases Mellin's Food should be prepared with water alone or with barley water, dissolving a tablespoonful of the Food in half a pint of the hot liquid. As thus prepared, it may, and usually should, be given cold; and if the vomiting or purging is severe, a teaspoonful only should be given at a time, repeating When the vomiting and it at intervals of ten minutes. purging have been arrested, the child can be allowed to suck from the bottle. After a couple of days have elapsed without the return of these symptoms a little milk may be cautiously added to the diet; this may be very gradually increased as the child's stomach gains vigour. In the summer-diarrhea of infants the child may seem to be hungry when, in reality, it is thirsty, and, food being given, his stomach is overtasked and the complaint is aggravated. Water * may be given,

^{*} Water for drinking purpose must be boiled,

Cold and errors in diet are the common causes of diarrhea in children, and care should be taken, on the one hand, to shield them from all sudden changes of temperature, and, on the other, to select a proper food, which should be prepared as above described.

Vomiting.—If the prepared food in any case seems to disagree, the mother or nurse should at once satisfy herself whether the fault is with the milk, with the method of preparation of the Food, or the way in which it is given. Sometimes milk from one source disagrees when milk from another agrees perfectly; too large a quantity of the prepared food may have been given at once; the meals may have been too frequently repeated: the milk, originally sweet, may have turned sour from keeping, or be at the point of turning; or the whole secret may lie in a slight uncleanness of the feeding apparatus, which has escaped notice. If the baby cannot retain milk. Mellin's Food dissolved in warm water only should be used for a few days: it is often best to give it cold (never lukewarm), in small amounts frequently repeated. In some cases Mellin's Food dissolved in barley water has given excellent results. As soon as the stomach gains tone a small quantity of milk should be added cautiously until the proper proportions are reached.

Mellin's Food is a great boon to nursing mothers in India, especially to those with whom ordinary food does not make up for the drain upon the system, possessing, as it does, satisfying and nourishing properties of a very high order. It is far superior to malt liquors, which are so often resorted to by nursing mothers to increase the flow of milk, since it not only increases the quantity, but also improves the quality of the milk yielded. The mother's strength is sustained under the adverse climatic conditions, and at the same time the child is well nourished. It may be used as directed below, or prepared to suit the taste, the proportion of Mellin's Food being increased or diminished as is found agreeable; it may be taken freely

as often as is desired.

Mellin's Food . . . One or more tablespoonfuls; Milk . . . One half pint.

Dissolve the Mellin's Food in the milk; add a little salt if desired. It is most generally relished cold. If more agreeable, it may be prepared by dissolving in filtered and boiled water instead of milb.

CHAPTER VII.

THE CLOTHING OF INFANTS.

the clothing of an infant very materially influences its condition of health, and may very largely determine its whole after-life, and no subject of nursery hygiene requires greater care. Babies are far more susceptible to changes of temperature than adults. Their liability to bodily derangements therefore, in consequence of undue exposure, is far greater than that of adults. The three qualities to be considered in selecting the materials for a baby's clothing are:—lst. softness: 2nd. warmth; 3rd. lightness.

A baby's skin is very tender and easily rubbed or chafed, which makes it necessary that care should be taken to choose those materials for its clothes which will not cause irritation. The clothing should be as light in weight as is compatible with due protection, and should be evenly distributed over the child's body. The sleeves of the dress should be made long and the neck high. The arms, legs, and neck should not be exposed under the mistaken notion that such treatment will make the child hardy. For small children these precautions are very necessary in India, save during the very hot season, on account of the carelessness of ayahs and the changing winds of the climate.

India embraces so great a variety of climate that the following remarks must only be taken as embodying general principles, to be varied in detail with local experience. It is necessary to warn mothers against the evils which arise from a want of protection, on the one hand from the direct action of the sun, and on the other from the influence of night chills or dry winds. The common tendency of mothers in the East is to load the chest and body with too great an amount of clothing. All clothing should be made loose, and if a child be prematurely born, or constitutionally delicate, special care should be devoted to its underclothing, which is best made of light woollen loosely knitted materials. Strings, tapes, and ribbons should be used where possible; but no ordinary pins should be employed in adjusting the clothes, and but few safety pins.

Residence in India, and in tropical countries generally, tends to induce slight delicacies of constitution which render one more susceptible to diseases of all kinds, and this influence

is most marked in early infancy. Nurses sometimes object to wrapping up children in India; but the dangers which arise from undue exposure are often greater than in England. The differences of temperature before and after sunset are much more marked and rapid than in England. A chill, which in England would merely lead to a slight cold without any serious consequences, will, on the other hand, in India, invariably lead to the development of more dangerous symptoms: and for this reason chills should be very carefully avoided. It is well that young Anglo-Indian mothers should remember that a fall of a few degrees of temperature in the tropics will make a much greater impression than a fall of many degrees in a temperate zone. There is probably no climate that requires so much change of dress as India, and therefore a careful mother will vary her child's costume during the day with the marked changes of temperature.

The baby's first clothes are usually made very long, which practice is both unnecessary and uncomfortable for the child. For the first dress a length of twenty-six to twenty-eight inches is enough, measured from the neck to the hem of the skirt.

The best means for attaining warmth, softness without undue weight, is by employing lightly made woollen materials, such as fine, but not too closely woven, flannel, flannel-gauze, cashmere, and merino. Such fabrics cost little more than cotton or linen in the first place, and are much more durable. By doing away with the foolish and costly process of short-coating, a child may be provided at once with an outfit for its whole infancy.

The washing of woollen materials is troublesome with native servants; but with a little care it may be easily and well done. A mother should see that the dhobee adopts the following plan:—The water in which the flannels are put should be warm, not hot, and the lather should be prepared beforehand with some good soap—Hudson's extract answers admirably—or pieces of ordinary soap may be cut up small, boiled down with a little water in an old saucepan, and then added to the water in which the clothes are to be washed. Another plan is to add about a tablespoonful of ammonia to each two gallons of water used for washing, by which means it is softened. The clothes should then be lightly and quickly rubbed, either with the hands or on a washing board, until they are quite clean, rinsed in clear warm water, mangled, and allowed to dry quickly.

The number and shape of the various articles of clothing

and the materials of which they are made will, of course, vary with the circumstances of the parents.

The usual outfit for a newborn baby consists of :-

3 flanuel binders: 6 shirts: 3 day flannels: 3 dozen diapers:

3 night flannels: 2 head flannels—1 night, 1 day:

6 day dresses: 4 pairs wool boots: 1 soft fleecy wool shawl: 6 night dresses:

1 flannel and 1 mackintosh appron for washing the baby on:

2 or 3 dozen goodries.

Later, some bibs and flannel pilches will be required.

The usual cotton binders, which are often drawn round the

child's body as tightly as possible and then stitched. not only make the child uncom fortable, but seriously impede its breathing.

The shirt should be twenty-four inches round. and nine and a quarter deep. It may be made of fine nainsook or embroidery cambric, trimmed with narrow Valenciennes lace, of which one vard



Fig. 21. - Baby's first shirt.

and a half will make six shirts; but a better material to use is fine merino vesting, or quite the best plan is to make them of fine knitted Shetland wool. The latter plan, of course, necessitates a great deal of labour; but during the later stages of pregnancy, under the influence of the climate of India. absolute rest is necessary, and a young mother will find pleasure and relief in the work. Shirts are sometimes made with a small V gore let in under the arm; but this is quite unnecessary, and the seams prove a source of irritation to the delicate skin of the child.

The binder should be of flannel, five inches broad, and long enough to pass twice round the child's body. The binder should be prepared without hems or turnings, and left with raw edges. It should be fastened with flaps taped at each side to tie across, and the use of pins avoided. When so made and used the binder is elastic, and serves as an efficient support for the abdomen without pressure upon any of the internal organs.

skirt and bodice should be made of Saxony flannel, and it is preferable that it should be made in two parts, so that, should the lower portion become soiled, it may easily be removed without disturbing the rest of the clothing. The bodice should be about the same size as the shirt, save that it

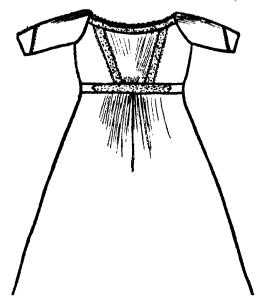


Fig. 22.—The monthly gown or dress.

must be made to fasten down the front, and the skirt should be about eighteen inches deep when finished. The two portions should be fastened together by means of flat buttons on the bodice, and holes to correspond on the skirt. Some of these garments, for night wear, might be made in one piece.

The dress should be made in one piece from neck to feet, and cannot be too simple, as comfort is essential. Twenty-eight inches will be found long enough from neck to hem, and fifty-two inches round the bottom (see Fig. 22). The sleeve should be cut in one piece, and the extreme length is ten and a half inches, nearly three inches of which folds up at the wrists to form a cuff. They should be cut sloping up, so as to be introduced into the neck, by which means the armhole is

larger than usual, and so much easier for the introduction of the arm. The back of the dress should be open from neck to bottom, and the top gathered into a neck-band through which a draw-string should be passed to run round the neck. The front should be gathered about six inches from the neck across the body, and attached to about six inches of the centre of the band. The band itself should be made so as to fit quite loosely when brought round the waist.

The material employed may either be fine nainsook, embroi-

dery cambric, or flannel gauze.

The night dress may be of longcloth, trimmed with narrow embroidery or lace, and cut the same shape as that for the day dresses. As soon as the band and night flannel are given up, the child should wear a fine knitted wool vest and a flannel nightdress. In the hotter parts of India, and during the summer in the plains, it might be made of fine gauze flannel, and during the winter and in the hill districts thicker flannel must be employed.

Boots are hardly needed where the clothing is purposely arranged to cover the feet; when, however, some kind of covering for the feet becomes necessary, those are best which

are knitted of the finest Shetland wool.

Napkins are a necessary nuisance, and they should be made of some soft absorbent material, such as Turkish towelling. When soiled they should be removed as soon as possible, washed, and dried in the sun. Only one diaper should be used at a time; such a bulky lot of material as two or three diapers not only makes a child uncomfortable by pushing its thighs apart, but tends to alter the shape of its legs.

The goodrie is a small quilted square, from fifteen or eighteen inches wide and twenty-four inches long, upon which it is the practice to carry infants in India. They are constantly being soiled, and are washed and dried daily by the ayah; weekly they

should be sent to the dhobi to be thoroughly cleansed.

For outdoor purposes a white Chudda shawl, during the first months of life, serves well as an outer garment. Later a soft thin woollen garment with very loose sleeves should be worn. So long as a child is unable to wear a sun topee, it ought only to be taken out in the early morning or during the late afternoon, after five o'clock in most parts of India. The child should be carried about as little as possible to prevent friction of the arm and undue heating.

CHAPTER VIII.

THE NURSERY AND AYAH.

E have considered in the preceding chapters the questions of feeding and clothing as being the two most important factors determining the health and well-being of infants. Before passing to the consideration of the

minor ailments of childhood we may next refer to the influence of the nursery and nursing upon the health of the child.

The Nursery.—The choice of a room for a nursery in town houses in England becomes a difficult question, but the conditions which are here laid down may be, with little difficulty, complied with in India.

The room selected as the nursery should be large, well lighted, well ventilated, free from draughts, and not in the neighbourhood of cesspool, closet, or any other source of unhealthy exhalations. An impure atmosphere tends to lower the tone of health, and not only induces a sickly constitution in the child, but, by reducing the vitality, also causes a susceptibility to all diseases. The rooms of Indian bungalows are usually large and airy, but the bungalows are not always themselves healthily situated. The following simple rules may be borne in mind by young parents when selecting or superintending the building of a bungalow:—

The site should be dry. Avoid, as you would death, a damp locality. In a town or city carefully ascertain whether or not the dwelling is on "made ground." Avoid it. Avoid ground underlaid with clay, for it will always be damp.

2. The site should be elevated on a hillside or gentle slope, never in a hollow. The hillside is warmer and drier than the hollow.

3. The site should not be close to a swamp, slow river, milldam, or land which is overflowed a portion of the year, nor in such a place that the prevailing winds will bring to the house damp air and miasmatic vapours.

4. In a village or town build on as large a compound as possible, thus securing air and sunlight. Build back from the street, thus avoiding the dust of the dry season and the curious gaze of every passer. Secure a yard in which trees and plants will furnish both shade against the sun for exercise and add to the general healthiness of the site.

- 5. In the country build the bungalow back from the highway, giving an abundance of room for trees and shrubbery about the house. Do not select a place where your family will be isolated from all social intercourse, so necessary to the health of mind and body.
- 6. For the aspect, let the house be so placed that it will receive fresh air. Avoid, even if offered rent free, a damp, dark house with no chance of the free air to sweep through it. The living-rooms should always be warmed by the morning sun. If the cold winds from the north and west are severe in the winter in hill districts, they may be broken by a cluster of evergreen trees planted on those sides.
- 7. The bungalow should always be built so that the ground floor is raised a few steps above the level of the carth. And if one part is raised to a greater extent than the rest in consequence of the slope of the soil, a room on the higher side should be selected for the nursery.

A cot should be provided, with a fairly firm horse-hair or grass mattress, protected by a mackintosh sheet, and on no account should the baby be permitted to sleep with the nurse.

The cot should be placed near one side of the room, so as to escape direct draught. A position near the inner wall is preferable, but do not place the bed so that it is exposed to the strong rays of the morning sun, for although sunlight is good, and possesses many hygienic properties, yet the strong glare disturbs the rest and acts injuriously upon the evesight. It is best to shelter the side of the bed most exposed to air currents by means of a screen. Good ventilation should be secured, but means must be taken to prevent draughts. At night, during the rainy season, the outer shutters should be closed, and in districts of India where the punkah must be employed at night care must be taken that it is not so violently pulled as to produce draughts of night air. The nursery and all the surroundings for the health of the child should be bright, clean, and cheerful; no unnecessary furniture, rugs, curtains, or hangings should be allowed. Although flowers may be permitted in the daytime to beautify the room, they should be removed at night, for the stagnant water and the aroma given off by the plants do not add to the purity of the atmosphere. And the one essential in the matter of air is that it should be as pure as possible, and of a uniform temperature. In the matter of wall covering, wood varnished or painted, or distempered or painted walls, are best. These may be adorned with pretty prints from the home illustrated papers.

The night clothing of the baby should be a long gown of

thin flannel with long sleeves and fitting well round the neck: the bed covering may be reduced to a minimum in the hot season, but the lost protection is secured for all parts of the body against chill by such a garment. Children, especially when young, are very apt to be restless during sleep, and to throw off the clothes. A very good plan, therefore, is to make the bed gown long and close it at the bottom, by running a tape, like the mouth of a sack. By this means, even where the bed-clothes are thrown off, the body is protected from draughts. And it is to the chills to which babies are exposed during the sleeping period that much of the delicacy and sickness of Anglo-Indian children may be traced. cautions with respect to the night-clothes are of the utmost importance during the period of the monsoons. conditions to be secured it is absolutely necessary that a mother should herself superintend the nursery, and see that the directions which she lays down for the management of her child and its surroundings are followed in every detail. native servants a mother has to combat against ignorance. prejudice, and carelessness, and she can only hope to obtain the best conditions for her babe by personal care of details. The young Anglo-Indian mother must be prepared to sacrifice a great deal of her time to the care of the nursery and her children if she would have them brought up under the most healthy and favourable conditions. Of course, where a mother has the advantages of a good English nurse a great deal of the responsibility and anxiety is taken from her; but where she has to depend entirely upon native servants, she will, as a rule, find that it is necessary to exercise constant supervision, and watch the treatment of her babe and the general work of the nursery.

Next to a good English nurse ranks, as a rule, the East Indian nurse, and where they have been brought up and trained in European schools they make much better servants than the ordinary ayahs. Nevertheless, the ayah is the nurse to be found in most Anglo-Indian homes, and it may not be out of place here to lay down a few rules for the guidance of a young mother in directing the duties of the ayah.

Sleep.—A newly born infant sleers a greater portion of the day, and usually, when healthy, wakes up only for feeding. The amount of sleep required decreases as the age and activity of the child increases, until at the age of one year a child will sleep some fifteen or sixteen hours out of the twenty-four.

Some young children suffer from excessive activity of brain,

and are restless, and sleep but little at night. Ayahs are much disposed to administer soothing drugs containing opium or morphia; a mother should therefore guard against this, and should not allow the ayah to administer drugs or medicines of any kind to her child, nor should she employ any of the so-called soothing syrups herself, but where such conditions arise in a child she should call in medical aid. The symptoms of drugging, for which a mother should carefully watch if she has reason to suspect that the child's sleep is other than quite natural, are as follows:—

Heavy sleep. The child if roused dozes off again immediately.

A child under four months will usually not sleep for longer periods than four hours to four hours and a half at a stretch.

The breathing during sleep is irregular and at times scarcely

perceptible.

The child on waking is not anxious for food.

The pupils of the eyes become contracted.

The face usually becomes pale during sleep.

Where drugs are employed in small quantities in a short time the digestion is interfered with, the appetite is reduced, constination is produced, the excreta becomes hard and claycoloured, and these symptoms are usually followed by pallor, listlessness, feebleness, and general wasting.

Sleeplessness is nearly always due to want of air, exercise, or error in diet, unless, of course, it may be traced to teething troubles, or to the existence of internal worms. A child should therefore be taken into the open air as much as possible. At three months, at least, a child should be taken out twice a day; in the morning say at 6.30 in summer and 7 in winter, and after 5 in the afternoon. But a young babe cannot be kept out more than three hours during the day in any part of India.

Until the child reaches the age of one year he should be allowed to sleep at any time, and it is a great mistake to rouse a child, at this early age, from healthy, natural sleep.

When the babe wakes in the morning the first duty of the ayah is to "hold him out," and the next to give him a bottle of food. Of course, if he is old enough, he will first have his bath.

If during the night he has perspired freely, the whole skin should be rubbed with a soft towel before bathing, care being taken that draughts are avoided. The skin of a baby is very active and very delicate, and is susceptible to changes of temperature. The child should therefore be rapidly should with not read to both 90° F hr nh it. The same

should be pure and free from alkali, and should not be artificially coloured or perfumed; the colouring and odorous

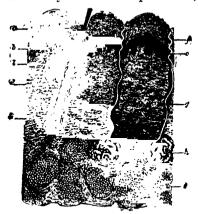


Fig. 23.—Section through the skin, very highly magnified, showing the sweat glands, root of a hair, and sebaceous or fat gland of hair.

matters so largely employed in preparing toilet soans are only too frequently the means adopted to mask inferior materials employed in their preparation. These added substances never increase the value of a soap as such, and, on the other hand, often act as irritants to the delicate skins of After the bath children. the skin should be carefully dried with a soft towel, and some good dusting powder should be dabbed into the folds of the arm-pits, groins. and buttocks with a soft puff. One of the simplest and

cheapest dusting powders is made from a mixture of six ounces of Brown and Polson's Corn Flour and one ounce of borax.

Directly the bath is over the child should be dressed for going out; and given the early morning bottle of food. The clothes to be worn should be looked out over night.

Before taking the child out the ayah should open all windows, and put the mattress, bed-clothes, and mackintosh to air, and place the empty food bottle and teat in filtered water containing a pinch of borax to soak. The baby would, in most parts of India, be ready to go out at 6.30 or 7 o'clock.

The mother should prepare a second bottle of food for the child's return, about 8 or 8.30, or, where a second ayah is kept, of course this duty would devolve upon her.

The feeding-bottle.—For successful hand-feeding the food must be given in a proper manner, and therefore care must be taken to select a suitable feeding-bottle. The shape must be such that the bottle can be quickly, easily, and thoroughly cleaned. Avoid bottles every part of which is not readily accessible. After each meal the feeding-bottle must be washed and brushed out thoroughly, and then kept in cold water until needed. The best plan is to have two bottles, and several teats, to be used alternately.

The fittings should be as few and simple as possible. It is almost impossible to keep a long rubber tube sweet A rubber

nipple stretched over the mouth of the bottle is best. It should be of such size and shave (conical is the best) that it may be readily turned inside out: the opening in the top must be of such size that the milk will not flow through without suction, since if it is too large the child will take food too fast, and this will frequently give rise to sickness—that known as the leech bite is considered the best. After each meal the nipple should be thoroughly washed and brushed on the outside, then turned inside out and the inside similarly cleaned. mothers will find it better to have two bottles in use, one of which should be in soak.



Both bottle and nipple must be kept scrupu- Fig. 24. - Feeding bottle-soas-water lously clean. To the disregard of this, however shape.

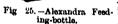
slight, may be traced, without doubt, a large proportion of the illnesses of children. The sense of smell will sufficiently indicate whether the bottle and its fittings are in a proper condition.

The feeding-bottle tube, with teats, should be thoroughly well washed with water made alkaline by dissolving in a pint of water as much bicarbonate of soda or borax as will lie on The bottle and teats, when not in use, should be allowed to lie in such water in a cool place.

The best pattern for the feeding-bottle is that known as the

soda-water shape (see Fig. 24), in which there is one opening only, and that in the neck, which is grooved on the inside for a screwed glass top. On this is fixed This form of bottle possesses the following advantages—it is easy to keep clean, and the child must be held in the ayah's arms during feeding, which is the proper position.

The infant's feeding-bottle generally met with in India is that known as the Alexandra (see Fig. 25). This form of Fig 25.—Alexandra Feed bottle has a china or glass screw top, to which an india-rubber tube ending in the



teat is attached on the outside. The tube passes through the

screw top and ends in the bottle in a glass tube. The teat has a small ivory collar attached to it so as to prevent the infant from sucking off and swallowing the teat. This kind of bottle is difficult to keep clean; and it has another disadvantage, for it may be placed in the cot and the baby allowed to feed itself, and this plan ayahs are only too ready to adopt. But an infant left to himself bolts his food, and this induces vomiting, diarrhea, wind, and fretfulness. Bottles which necessitate the use of corks should never be employed, for the cork is very absorbent, and they are most liable to taint the milk.

The following rules ought to be attended to in the case of hand-fed children:—

- The bottle should be taken away as soon as the contents are finished.
- If the child refuses to finish the bottle, it should be taken away at once.
- 3. If any food remains at the end of the meal it should be thrown away, and on no account warmed up for the next meal.

On the return of the ayah or nurse about 8 or 8.30, the child should be held out and then fed.

After breakfast the child should be held out again, or placed on the "stool" until the bowels are moved. Restlessness may be prevented by toys or picture-books, when the baby is old enough to be interested in such things.

At 11 or 12 o'clock the infant should be completely undressed, and placed in a darkened room for midday sleep for from two to three hours.

On waking the child should be dressed in clean clothes and fed again about 1 or 1.30.

The next meal should be given about 4.30 to 5.

The child, if old enough, may then be dressed for going out, and taken out for an hour.

At 7 o'clock the evening meal should be given before going to bed. Many young Anglo-Indian mothers make the mistake of supposing that children must be put to bed as early in India as in England, forgetful of the fact that if a child sleeps for two or three hours during the heat of the day it does not require the same amount of sleep at night. In most parts of India a child cannot go out in the afternoon until after 5 o'clock, and as its age increases it becomes more and more necessary that it should stay out as long as possible, usually until about 6.30 or 7 o'clock.

Of course, the hours will vary somewhat in different stations, but these simple rules hold good over vast areas in India.

When the child is put to rest, care must be taken that the blankets, mattress, sheets, etc., are clean, sweet, and perfectly

dry.

A good plan adopted by many experienced Anglo-Indian mothers is to place the child on a mattress upon the floor. The great advantage of this plan is that the infant may be placed with ease in any part of the house to secure coolness. The infant should always when sleeping be protected from mosquitoes by a light mosquito net. The best forms are shaped somewhat like a dish cover, and are made of light cane and gauze. By this means protection is provided and ventilation not to any extent interfered with.

When the child is out it is necessary that he should be sheltered from the direct sun heat, and as soon as he is old

enough a sun topee should be worn.

A mother should know exactly where an ayah takes her children, and should see that the directions which she gives on this subject are followed in detail.

The ayah should not be permitted to give native sweetmeats or any other compounds of sugar to the children in her charge.

The mother should insist on great personal cleanliness on the part of the ayah. She should be made to take a daily bath, and to wear clean clothes.

CHAPTER IX.

TEETHING.

HE teething period is usually a trying time for the mother and child, and complications which arise during teething often lead to serious ailments.

Not that these ailments should be considered as caused by teething, but as rather due to the unstable condition of the economy which is produced at this stage of life. This is a period of great activity in the growth and development of

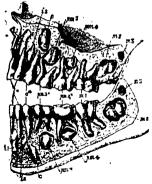


Fig. 26.—Showing first or milk teeth

a child, and the balance of health is frequently upset and ailments set up. It is this unbalanced condition which causes the extreme susceptibility to ailments at the teething period.

The age at which a child cuts its first tooth varies in individual cases; the majority of children begin to cut their teeth when from four to six months of age. Some very vigorous and forward children may begin as early as three months, and in those of weakly constitution teething may and second set of teeth developing be delayed until the eleventh or even twelfth month. Teething

seems to be less painful and more rapid in India than in England; but, on the other hand, the attendant disturbances of health and accompanying ailments need greater care and attention than in England.

In ordinary cases the child grows irritable, refuses its food at the regular times, and becomes feverish at night, and a young mother may imagine that the baby is going to be very ill; but directly the teeth appear these symptoms pass off.

At the age of two and a half years a child, as a rule, has his first complete set of teeth; these are known as the twenty milk teeth. As a rule, these teeth are cut in the following order in each jaw:—

2 Central Incisors, or Front Cutting Teeth .		6th	month.
2 Lateral Incisors, or Outside Cutting Teeth		9th	,,
2 Canine, Dog, or Eye Teeth		18th	17
2 First Molars, or Lateral Grinders		12th	,•
2 Second Molars, or Posterior Grinders		24th	,,

Of these the teeth in the lower jaw usually make their appearance first, and the corresponding teeth in the upper jaw soon follow the development of those below. The teeth which give the greatest trouble to the child are the second molars, which are usually cut about the end of the second year.

The second set. or permanent teeth, begin to make their

appearance about the eighth year.

Whilst a child is teething several symptoms occur, none of which are dangerous in themselves, but if neglected they may lead to serious after-results.

For some few weeks before the appearance of any teeth the child dribbles at the mouth, the eyes water, it suffers from thirst, diarrhea, cough, and often from fever. Where the teeth come in rapid succession the symptoms are often more severe, attended by convulsions, inveterate vomiting, squinting, ear-ache, and various forms of skin rashes.

Many of these symptoms are merely the result of the nervous irritation set up during the teething period, and unless the symptoms are severe, medical aid is unnecessary.

Dribbling during teething is a good sign, and as a rule the less painful and irritating the cutting of teeth to the child, the

more marked the dribbling becomes.

Fresh air and exercise, warm baths at night, the head kept clean and cool, and plenty of proper food, go a long way towards making dentition painless for the child, and reducing the anxiety of the mother.

It is a good plan to give the infant an ivory ring or hard rubber pad to rub its gums with and to bite.

In cases of cough during teething, a teaspoonful of glycerine

should be given two or three times a day.

The action of the bowels should be attended to, and regular normal excretion should be maintained by occasional doses of fluid magnesia. Sometimes tooth cough is a tended by marked constipation; in such cases doses of castor-oil emulsion should be given, prepared as directed on page 67.

Should the child suffer from sickness, the milk should be diluted with lime-water, or a pinch of bicarbonate of potash

may be added to each bottle.

Convulsive symptoms should be immediately carefully attended to, for infantile convulsions not infrequently lay the foundation of abnormal nervous conditions, which lead to epilepsy in after life. Cooling, mildly aperient medicines should be given, and if the symptoms do not disappear, medical aid must be sought.

When a fit of convulsions comes on the head should be sponged with cold water, and the child should be placed bodily in a bath of warm water at about blood heat—viz., 98° Fahrenheit. After removal from the bath the child must be wiped with a soft towel and placed in warm blankets, the head being kept cool

Where dentition is painful and the gums become swollen and inflamed, the child will shrink or cry when the gums are touched with the finger, and in such cases it is advisable to have the gums lanced. When dentition is normal and easy, the gentle friction of the gums with the finger is soothing to the child.

See that the ayah does not administer any drug or soothing syrup. Opium and mixtures containing opium and Indian hemp are frequently resorted to, and a mother should carefully guard against their use in any form.

CHAPTER X.

VACCINATION.

ACCINATION is the operation by which an infant or adult is inoculated with a material which is produced in cow-pox. The disease known as cow-pox is a peculiar complaint which affects the teats of cows, and in the early history of vaccination it was noticed that those persons who were in the habit of milking cows so affected secured immunity from ordinary small-pox. These observations led Jenner to the idea of introducing some of the fluid, produced in the eruptions present in cow-pox, beneath the human skin, with the object of affording protection against small-pox. was found that the two diseases, cow-pox and human smallpox, were antagonistic to each other; that the vaccinia of the former, introduced beneath the skin, produced such changes in the body as to sterilise the blood against the human disease. small-pox. It appears that the efficiency of the vaccination does not in all cases remain through life, but by re-vaccination complete immunity from the loathsome disease is secured. Even where a vaccinated person does take small-pox the disease runs usually a comparatively mild and simple course. In England, and in European countries generally, the disease is so under control that one rarely meets a patient marked by small-pox. But in India, and the East generally, where vaccination is by no means general, a large percentage of the natives are deeply scarred and pitted with the disease, and also a large number die annually.

The liability to small-pox is therefore far greater in India than in England, in consequence of its prevalence among the native peoples of all castes. Every Anglo-Indian mother therefore should seek at the proper time protection for her child from this vile disease. The actual operation is a simple one, and if due precautions are taken by the operator, and cleanliness and care observed by the ayah and mother, no ill effects should arise. Nevertheless, slight disturbances are produced in the health of the child, which will cause the mother some anxiety at this period.

The time at which vaccination may best be performed will vary under different circumstances, but in all ordinary cases

the operation should be performed between the ages of six weeks and three months. By the vaccination laws of Great Britain and Ireland every infant must be vaccinated before it is three months old, and this is a very good rule, for the slight disturbances which may be produced are got over before the teething period commences.

In India, however, where the child is healthy, it is advisable to have the operation performed as early as possible, save that it is best to avoid the rainy period of the year, or monsoon season, for at this time of the year complications are most likely to arise.

When the operation has been performed no special care is required, save the precaution that the inoculated part shall be kept scrupulously free from irritation. Rubbing, scratching, and dirt must be carefully avoided. For the first eight days after vaccination the part should need only the ordinary shield against scratching. About two days after the operation the punctures made will become somewhat swollen and hard: on the fifth day a small circular vesicle, with raised edges and a depressed centre, is seen. By the eighth day this vesicle becomes distended with a clear fluid, and is either pearlcoloured or somewhat yellow. From the eighth to the tenth day a small inflamed ring makes its appearance round the base of the vesicle, and this extends for some two or three inches round the central spot. About the tenth day, if all goes well, the swelling begins to disappear, and the little vesicle turns brown and becomes scaly, forming a scab which drops off about the twenty-first day, leaving a permanent discoidal scar. If the operation does not follow this course. especially if the vesicle appears carlier than the fifth day and the inflamed ring is not present, the vaccination must be repeated.

Treatment of the child after vaccination.—The most important point is to keep the arm free from all kinds of irritation. The dress sleeve should be loosened. This is best done by opening the seams of the sleeves of the dresses to be used, and sewing in tapes, which may be employed to fix the sleeve as loosely as desired.

A dusting powder prepared from equal parts of oxide of zinc and boracic acid will be found most useful in subduing the heat of the spots.

Where the irritation is more marked relief may be afforded by loosely binding up the part with pieces of old soft linen, which are kept moist by dipping them in a solution of borax in filtered water. Where the spots become very much inflamed and the child suffers considerable pain, hot fomentation may be applied. But unless it is absolutely necessary to resort to this mode of relief, moist applications should be avoided, as they tend to soften the heads of the vesicles and prevent them

from drving.

Source of vaccination material.—This is a matter about which many young mothers in India give themselves unneces-The medical attendant is most capable of sarv anxietv. deciding. Mothers and friends generally only too often are led by sentiment or prejudice. The medical man is best able to judge of the healthiness and suitability of a child. European countries calf vaccine lymph is often used for the vaccination of children, but in England many practical difficulties exist in the way of the general adoption of this plan: in India these difficulties are very considerably increased. In Bombay and other large cities vaccination is generally performed direct from the calf. Outside the large cities of India, therefore, the origin of vaccination material usually resolves itself into the question of white child or native. mother should understand that vaccination is just as efficient from a healthy native child as from a white one. The question of healthiness and suitability is one for the medical man, and a mother, having selected with care her medical adviser, must trust to his knowledge and skill. Remember that it is against the interests of any medical practitioner to vaccinate from, or recommend vaccination from, a child which he knows to be unhealthy. All that a mother can do is to learn as far as she can the antecedents of the child from whom it is proposed to vaccinate her infant, and ascertain that the medical man is informed of the same.

In the preceding lines we have dealt with the objects and methods of vaccination of Anglo-Indian children; but while an Anglo-Indian mother, as a rule, knows something of the advantages of this preventative measure, the same is not true of the bulk of the natives.

In spite of the enormous amount of good hygienic work which has been done by the Zenana Missions, and the improvements in sanitary education brought about by the National Indian Association, the progress is but slow, and much remains to be done to educate the masses in the advantages of the simplest matters of hygiene.

CHAPTER XI.

MINOR AILMENTS.

onstipation or Costiveness is the condition in which the motions are too hard and are often changed in colour. Many young infants in India suffer from this ailment, yet few mothers treat the matter with the serious attention it deserves; and this neglect is probably chiefly due to ignorance of the causes which are at work producing the same. The conditions which give rise to these distressing symptoms in infants may be classified under the following heads:—

Firstly. Where the child is being fed from the breast and constipation arises, in most cases it will be found that the mother's health is not right, and a little attention to the matter of healthy action of her bowels will lead to the disappearance of the symptoms in the baby. The remedial measures as far as the mother is concerned lie in the direction of more exercise, increased vegetable food, and occasional doses of saline beverages.

Secondly. In the large majority of cases of artificially fed babies, constipation makes its appearance during the first few weeks of life in consequence of the use of improper artificial foods. Farinaceous foods act as irritants to the bowels; in such cases constipation is frequently associated with short and intermittent attacks of very offensive diarrhea. The child should, in such a case, at once be placed upon a diet of Mellin's Food, prepared and employed as directed on p. 42, and the symptoms will in most cases disappear. Should, however, the constipation prove persistent, the following remedy should be adopted:—Well mix with the bottle of food two or three times in each twenty-four hours a pinch of phosphate of soda.

More marked cases of constipation after the first few weeks of life may usually be traced to error in diet, such as the use of rich cow's milk and farinaceous foods. A change of diet will usually remove the conditions, and food prepared and employed as directed on p. 42 will establish healthy action of the digestive canal. Where the symptoms are very pronounced an ordinary aperient may be used—castor oil is one of the best, given in doses of half to two teaspoonfuls. It should be given plain and followed by some warm food.

Much may be done to cure constipation by care in inducing regular habits both in feeding and excretion. A baby should be fed at regular intervals and held out at the same time each day. A child's bowels for the first six months ought to be opened two to four at least, and not more than five times in the twenty-four hours. The excreta ought to be neither too hard nor too fluid, and they should be of a bright yellowish-brown colour. The quantity of urine passed by an infant is proportionally greater than that of an adult. It should be clear and of a pale straw colour, not turbid or cloudy.

Thirdly. Chills frequently give rise to constipation. This form of reduced activity of the bowels is very common in India among weakly children; it is usually accompanied by loss of appetite and the passing of solid clay-coloured or pale motions. The best remedial measures in such cases lie in the direc-

tion of—

- (a) Change of diet. Dilute Mellin's Food.
- (b) Hot fomentations over the belly and gentle rubbing.
- (c) Warm clothing and protection from draughts.

Fourthly. Another form of infantile constipation extremely common in India is due to a want of muscular tone, or weakness of the muscular coats of the digestive canal. The employment of abdominal friction coupled with a liberal diet of Mellin's Food, prepared as directed upon p. 42, will usually remove the symptoms at once.

If the motions are very solid and cause pain, the abdomen should be rubbed with the hand, or with some oily substance, such as ordinary salad oil. The friction should begin at the right lower portion of the abdomen and pass upward and to the left down and back again in a somewhat elliptical fashion. It should be continued slowly, gently, but firmly for ten to fifteen minutes,

As the child grows older, in India a plantain mashed up in milk with a small quantity of Mellin's Food given before breakfast will usually rectify the sluggish action of the bowels.

Diarrhea.—Diarrhea is one of the most serious ailments that a baby can have, and unless it is of a very mild character and the child only slightly out of health, the medical attendant should be sent for. In India it may be regarded as perhaps the most serious form of illness an infant is liable to.

The first form, or simple diarrhea, is generally caused by unsuitable food, and if the baby is breast fed, then attention should be directed to the mother's health. If, on the other hand, the child is artificially fed, then in nine cases out of ten it will be found that the distressing symptoms arise from one of two causes:—

- (a) The use of farinaceous food.
- (b) Improper goat's or cow's milk.

A healthy baby for the first six months of its life should have from two to four motions a day, and the excreta should be of a golden vellow colour, and nearly devoid of odour, or at most only slightly faint. Above this age a child should have two to three motions in twenty-four hours only; any greater number than this shows a tendency to diarrhea. But, at the same time, if the baby does not refuse food, or otherwise seem unwell, it would not be advisable to check the activity of the digestive organs. But if the motions become more frequent, being passed immediately after food is taken, and if they are watery, slimy, or greenish in appearance, then it is pretty certain that something is seriously wrong. The causes which give rise to these conditions should be at once removed. farinaceous food Mellin's Food should be at once substituted. and goat's milk should be steadily avoided. The food should be given cooler than usual, and greater care should be exercised in the use of filtered water and clean bottles.

The second form of diarrhœa commonly seen in babies is marked by the rapid passage of the food, which is excreted often apparently unchanged, in curd-like masses. The child has frequent attacks of sickness, and suffers from violent griping pains. This condition is usually set up by the irritation caused by improper food or by exposure to cold. In the early stages a very small dose of castor oil, given in the form of an emulsion, is very helpful to carry off the irritation. The emulsion may be made by mixing three drachms each of gum arabic and loaf sugar, to these add two drops of oil of peppermint and six drachms of water; rub the whole thoroughly up in a mortar, add gradually an ounce of castor oil, and just enough water to make the whole measure four ounces. The whole should be well shaken, and of this emulsion one-half to one teaspoonful should be given every four to six hours.

The third form is inflammatory diarrhea, or dysentery. The object of the mother should be to establish safeguards

against this complaint by the study and practice of hygienic conditions. The questions of treatment and cure lie beyond the scope of this little work. Preventative measures lie chiefly

in the direction of attention to food and clothing.

The symptoms of dysentery are fever, much looseness of the bowels with straining, the passage of viscid or slimy motions, charged with much mucus and, in the later stages, blood; the griping is very marked, and the straining violent. The infant rapidly loses flesh, becomes pale and exhausted. This disease takes but a few days to reduce even a robust and vigorous child to an emaciated condition. A warm bath is always soothing, and often does good, and in any case the child should be kept warm, and sleep induced. A favourite remedy is white of egg beaten up in milk or water; this is nourishing, and somewhat binding in its action. The medical man should be consulted as soon as possible.

Vomiting.—A child's stomach is very small; it holds only about a wineglassful. A baby often sucks its food very vigorously, and thus rapidly takes in more than enough to fill its little stomach; so it returns the excess by what is known as "posseting"—that is, from time to time a small quantity of food slowly trickles from the corners of the child's mouth. When this condition arises it is only necessary that the baby

should be kept quite still after feeding.

In cases of true vomiting, attended with more or less effort and retching, some errors in diet are indicated. The causes usually fall under the heads:—

- 1. Too frequent feeding;
- 2. Improper foods;
- 3. Rich curdy cow's milk.

In breast-fed children vomiting is due in most cases to the breast-being given too frequently, or to some weakness in the health of the mother. The period between meals should be lengthened, farinaceous foods should be rejected, the cow's milk should be examined, the mother's health should be attended to. Where the vomiting becomes persistent medical aid should be obtained. In any case, all starchy foods should be abandoned, and Mellin's Food, prepared as directed on p. 44, should be substituted.

Flatulence is closely connected with indigestion, and although quite without danger, it often causes the child considerable

pain. Complaints have been made that in India the carelessness and ignorance of ayahs has much to answer for in this matter. It is asserted that they frequently allow babies to suck the tubes of empty feeding-bottles, and often bind their little charges too tightly, both of which would tend to induce flatulence. When slight, the child may be laid on its belly or back and gently but firmly rubbed; a warm bath, too, proves in most cases very efficacious. A change of diet and attention to the points mentioned above will usually be followed at once by disappearance of the symptoms.

Gripings.—The symptoms are violent screaming without any apparent cause; the legs are drawn up, the motions are slimy and usually greenish in colour. In breast-fed children the cause of this griping is frequently to be found in some errors in the dietary of the mother. A mother's food at the nursing periods should be simple and nutritious, without any

great variations.

In the case of artificially fed children carelessness on the part of the ayah in preparing the food—such as the use of sour milk, or of a bottle which has been but imperfectly cleaned—is

a frequent cause of stomach-ache.

To keep her baby well a mother should never allow a bottle or part of a meal to be kept from one feeding time to the next, but the bottle should be emptied at once at the end of the meal, and then placed in water to soak. The tube, nipple, and stopper should be washed carefully, and then also placed in water to soak. The smallest quantity of sourcd milk or food left in a bottle is enough to upset the baby, and in India milk will keep sweet but for a very short time. Great care should therefore be exercised in this matter.

In cases where griping arises from overfeeding, then the

best remedy is a dose of castor oil.

Protrusion of the Bowel may be caused either by constipation or diarrhoa. The bowel comes down through the anus, forming a reddish swelling which may be no larger than a small nutmeg, or quite as large as a pigeon's egg; it may bleed slightly, and causes in any case a great deal of pain. To return the bowel press up firmly by means of a sponge which has been wrung out in cold water. When the bowel has come down once it is always liable to do so again; care should therefore be exercised over the baby every time it has a motion. Any tendency to constipation or diarrhoa should be at once removed, and straining should be prevented. A

cold sponge bath every morning will help to strengthen the child, and bathing the parts with cold water after the bowels have acted improves the muscular tone and serves as a preventative measure.

Thrush, also known as white mouth, is a peculiar form of inflammation of the lining membrane of the mouth, which

frequently gives trouble to the young mother in India.

The condition seems to make its appearance more particularly in hand-fed babies. The signs of thrush are numerous irregular, roundish, white specks on the inner surfaces of the lips, gums, palate, and cheeks. Each little spot is surrounded by a deep reddish space, and is so tender as to cause great pain in swallowing. The mouth is usually very hot and painful, and the child experiences such difficulty in suckling that it refuses the breast or bottle. These symptoms are usually accompanied by a certain amount of redness and soreness between the legs.

The spots in thrush are really due to the growth on the membranes of a lowly and minute vegetable fungus. This organism grows freely in milk which has undergone decomposition, and it is probably caused by a want of scrupulous cleanliness. The fungus will grow in the cracks, fissures, and crevices of feeding bottles, and other utensils which have contained milk. It is most prevalent during the hot season; for heat favours acid changes of milk, and so stimulates the growth of this little fungus.

Treatment.—After a meal the child's mouth should be wiped out, and all fragments of food removed, with warm water in which a pinch of carbonate of soda has been dissolved. The mouth should then be cleansed by means of a camel-hair brush or soft linen soaked in a mixture of borax

and glycerine.

When thrush has declared itself all milk must be carefully boiled, and a few grains of carbonate of soda or carbonate of potash added to each meal. Where the symptoms are accompanied by vomiting it may become necessary to substitute beef-tea or chicken broth or barley water for milk.

Most absolute clearliness must be enforced, as far as the feeding-bottle and teats are concerned (see p. 56). If the condition of the child does not improve in two or three days, medical aid should be called.

Croup.—This disease is entirely confined to very young children. The term is somewhat loosely employed by mothers

and nurses to include a large group of symptoms occurring in young children. The symptoms which arise in croup are due to inflammatory changes which take place in the lining

membrane of the windpipe.

What is known as "false croup" usually begins at night, the child waking up and catching its breath, and apparently on the verge of choking. These symptoms are most likely to appear among badly fed infants living in insanitary surroundings. An attack of true croup usually begins like a common cold, with slight feverishness, hoarseness, drowsiness, and running at the eyes and nose.

The best treatment for these attacks is a hot bath, and to induce sickness by tickling the back of the throat with a small brush or feather, or by passing the finger into the back of the throat. Exercise greater attention in the matter of food,

times of feeding, and regularity of action of bowels.

Child Crowing.—These attacks are very similar in character to false croup, and are common during the teething period. An infant, apparently in perfect health, is seized with a spasm, and the breathing is for a few moments completely arrested. As the spasm passes off and respiration is renewed, the breath is drawn in with a crowing sound very like that produced in false croup. When an attack occurs, turning the child over on its face will often cut short the spasm, or a hot sponge on the throat, cold water dashed in the face, and the free use of smelling salts must be resorted to. General preventative measures lie in the direction of improvement of the general health, exercise in the open air, wholesome easily digested food, and attention to the regular action of the bowels. A medical man should be consulted as soon as possible.

The previous pages have been devoted to the consideration of some of the chief causes and treatment of minor ailments of children, but since the health of parents influences the health of their offspring, the enormous importance of the study

of hygiene in India must be apparent to the reader.

Dr. C. Theodore Williams, in a lecture recently delivered

before the Sanitary Institute in London, says: -

"The effect of great heat on different organs of the body is as follows: In the case of the lungs it reduces the number of respirations from 16, the standard in temperate climes, to 12.74 in the tropics, accompanied by a slight spirometric increase, but not enough to account for the decreased number of respirations, and so the respiratory function is diminished

8.45 per cent. The water exhaled from the lungs is reduced, and the observations of Parkes and Francis show that the lungs of Europeans dying in India are lighter than the European standard after death, proving that these organs, being brought less into physiological activity, diminished in size.

"The heart's action does not appear to be materially quickened or the pulse rate increased in the tropics, but the powers of digestion are weakened, the appetite fails, and the liver becomes congested, and tends either to tissue induration or abscess. The urine is lessened in amount and the urea reduced, possibly from the smaller amount of animal food consumed. The skin acts freely, and its secretion is stated to increase 24 per cent. in the tropics. The nervous system is depressed, and sleep is not so sound as in temperate or cold climates.

"Protracted residence in hot countries induces further deterioration in Europeans, impairing the functions of digestion, assimilation, and circulation, and hence the power of making healthy tissue; the tint of the skin and the colour of the conjunctive, also the expression of premature age, proclaim the length of an European's residence in the tropics. European children demonstrate most forcibly the unfavourable effects of hot climates, and in India it is generally thought desirable to bring them at any early age to a cold climate like that of this country to escape the effect of the tropical heat, and few sights are more pleasing than to see these puny, pallid, skinny, fretful little ones converted, by British food and British meteorology, into fat and happy English children.

"The most obvious effect, however, of great heat is sunstroke, which occasionally occurs in temperate as well as tropical climates, and though principally due to exposure to the solar rays, according to Sir Joseph Fayrer, happens frequently to people in houses, barracks, and tents, and not only when they are exposed to sunheat; it may occur by night as well as by day. The subjects of a sunstroke are generally those debilitated by disordered health, dissipation, or overfatigue.

"According to Fayrer there are three varieties of sunstroke, each characterised by a certain group of symptoms:—

"The first showing itself in exhaustion and failure of heart's action;

- "The second in a condition of shock in which the nerve centres, and especially the respiratory nerve centre, become implicated, causing rapid failure of respiration and circulation:
- "The chief feature of the third is intense pyrexia, due to rasomotor paralysis and to the nervous centres being overstimulated, and then exhausted, by the action of heat on the body generally.

"From the first form recovery is frequent, but the second is far more serious, and is generally due to the direct action of the sun's rays on the head and spine. The brain and nerve centres, including the respiratory nerve centre, are overwhelmed by the sudden rise of temperature, respiration and circulation fail, and the heart is found contracted after death. The symptoms of this form are generally those of violent injury to the nerve centres, unconsciousness, cold skin, feeble pulse, and death from rapid failure of respiration and circulation.

"The third form, the so-called 'heat fever,' is an intense state of feverishness, the effect of heat on the nerve centres. and through them on the vaso-motor system, resulting in the raising of the body temperature to as high as 108 or 110° Fahr., or even higher, by heat—solar or artificial. This is the form which comes on at night or in the shade, if the temperature be high, and chiefly affects those exhausted by dissipation, fatigue, or overcrowding. Sir Joseph Fayrer teaches us that all the nerve centres suffer from over-stimula tion, followed by exhaustion. Here is dyspage of a hurried. gasping kind, great restlessness, thirst, frequent micturition, and pungent heat of skin, which is sometimes dry and sometimes moist. The pulse varies from full and laboured to quick and jerking; the face, head, and neck are congested to lividity; the pupils, at first contracted, may dilate before Delirious convulsions, often epileptiform, coma, relaxation of the sphincters, and suppression of urine precede the end, but not infrequently partial recovery takes place, to be followed later by relapse and death. The mortality from sunstroke is between 40 and 50 per cent., but of those who recover many are permanently injured, either in brain power or in general health; and we find as a result impairment of memory, nervous irritability, headache and even epilepsy, partial paraplegia, partial or complete blindness, and extreme intolerance of heat, and especially of the sun's rays.

"There are, however, cases of recovery from sunstroke, especially when contracted in temperate climates, which are either complete or present less serious lesions than the above. In fatal cases, after death the lungs are found deeply congested, the heart firmly contracted, the venous system gorged, and the body marked by petechiæ. The blood is more fluid than usual, and acid in reaction; the globules have less tendency than usual to form rouleaux, and are deficient in oxygen. The body, after death, for some time retains a high temperature, and the viscera, when first exposed, feel pungently hot, and, when incised, drip dark blood. The brain and the membranes are intensely congested, and there are sometimes serious effusions into the ventricles or hæmorrhages into the brain substance. The cause of death is generally asphyxia, but apoplexy is occasionally found."

Of the diseases prevailing in hot climates, and apparently dependent for such prevalence on the special conditions of those climates, it will be noted that dysentery, and its frequent companion, which is also not rarely its sequela, liver disease, form part of the group. A map of the geographical distribution of these diseases shows that liver disease is confined to hot countries, and does not largely overstep the limits of the tropics; whereas dysentery has a somewhat wide range, but prevails with far greater virulence in the tropics than in subtropical and temperate regions. Fayrer shows that at Calcutta the deaths from dysentery and diarrhea amounted in one year to 1,516, and that the mortality from these causes was highest in January (243 deaths) and lowest in

Dysentery is often attributable to drinking impure water and to insanitary surroundings, as well as to malaria. Some cases appear to arise from sudden meteorological changes, such as from hot to cold and from dry to wet weather. All the causation of this disease seems to be largely governed by the influence of climate, and hence its greater prevalence in hot

climates compared with cold.

May (85 deaths).

Liver disease in India was attributed by the late Professor Parkes to errors of diet on the part of Europeans in a hot country; and probably there is truth in this, but it can hardly account for the extensive mortality among Hindoos, Mahommedans, and other natives from this cause.

With regard to the introduction of preventative measures among the native population, Surgeon-General Sir William

Moore says: "Perhaps the greatest difficulties we have to contend with are found in the internal social life of the people; for while there may be, and is, a certain amount of authoritative interference outside, it cannot be extended inside houses, or to the personal hygiene of the people."

The debilitated condition to which mothers, and indeed all Europeans, are often reduced by the influence of climate. requires to be combated by tonics. This lassitude is often accompanied by sluggishness of the liver and intestinal system, loss of appetite, and an anemic pallor of the mouth and lips. What is wanted is an active tonic which will permeate the system and act as a spur to the functional muscles and nerves. One of the best remedies of the kind we now have is the preparation of Chiretta, made by Kemp, of Kensington, formerly of Bombay. This is a kind of depurated extract of the well-known Indian drug, freed from all counteracting principles such as tannin, and of a uniform concentrated strength. Its effects in counteracting the pernicious influence of a tropical climate are remarkable. The same may be said of it with regard to jungle fevers and complaints known as "malarial." In debility and anæmia of children out of infancy this remedy is excellent, the only drawback in such cases being its bitter taste. Mr. Kemp informs the writer that, although he is the only maker, his "Chirata Tonic" and "Chirata Liquida Kemp" may be obtained through any London agents.

CHAPTER XII.

WHAT TO DO IN EMERGENCIES?

the preceding pages some of the more important conditions regulating the health of babies have been explained, and where possible simple instructions have been given as to the manner in which the healthy activity of the various organs may be maintained, and sickness and disease prevented. In India, where the distances are so great as to render it often very difficult to obtain medical aid, it becomes important that nurses and mothers should know the course to be adopted in sudden emergencies and accidents.

Conduct in cases of accident.—In all cases of accident, the safety of the injured one depends upon the first steps taken by those around to afford relief. If from the following pages a mother learns how to act efficiently in such emergencies, she will have the pleasing satisfaction of knowing that she has gained that knowledge which may enable her at any moment to soothe the suffering, alleviate the pain, and expedite the cure of her child, or to save the life of another.

It is necessary in all cases of accidents to pay particular attention to the following points, in order that the treatment may be rewarded with the greatest success:—

- Try to be collected, calm, and decided; and before adopting any mode of treatment make up your mind definitely as to what you intend to do. Having decided upon a course, carry out your intentions calmly and firmly, paying no attention to modifications suggested by bystanders, which may cause delay and increase the sufferings of the injured one.
- 2. Lay the patient in a position which is the most comfortable—usually on the back, and so in a horizontal position; but if a difficulty is experienced in breathing when so placed, then slightly raise the upper part of the body.
- 3. Loosen the clothes about the neck, chest, and waist.
- 4. If the body of the patient feels cold, cover it with blankets; restore warmth by friction or other artificial means, unless the coldness is attended by copious bleeding.
- 5. Do not administer stimulants unless the patient is completely exhausted, or remains in a fainting condition for more than twenty minutes, and even then only give small quantities.

Treatment of small cuts or wounds which are not of sufficient importance to need the advice of a surgeon. injuries are often rendered very troublesome or even dangerous by unskilful treatment. Care should always be exercised. therefore, even in the treatment of slight cuts and simple The wound should be washed with a little warm water, if at hand, or cold water may be allowed freely to flow over it, the wound being afterwards wiped with clean linen. Such a mode of treatment secures the removal of dirt or foreign matter. The cut edges should then be pressed firmly together, and held in their places by strips of plaster placed at right angles to the cut.

Where cuts are more serious it becomes necessary to modify the mode of treatment, according to the kind of vessel from which the blood is escaping. The blood is contained in the three kinds of blood-vessels-namely, arteries. body



bleeding from artery in thigh

veins, and the very minute vessels which connect the smaller arterial branches with the small veinsthe capillaries. The arteries are usually more deeply seated than the veins: in fact, most of the blood-vessels which can be seen through the skin with the naked Fig. 27.—Compression applied to stop eve are veins. The blood contained by these three classes of vessels

varies in colour; that present in the arteries is bright red. and that of the veins dark red, whilst that which is found in the capillaries is intermediate in colour.

The differences in the manner in which the blood leaves the vessels as well as its colour, enables one to determine the source from whence it comes.

The blood which issues from a wounded artery is of a bright red colour, and spurts forth in jets corresponding to the beats of the heart, whilst that from a vein is much darker in colour, and flows in a continuous stream. In bleeding from capillaries the blood oozes from the wound.

Bleeding may generally be stopped by pressure properly applied. Remembering that the blood flows along veins towards the heart, and along the arteries away from the heart, it becomes necessary to explain how and where the pressure should be applied in the case of the two kinds of vessels. Where bleeding is from a wounded vein, if direct pressure will not stop the flow of blood, a ligature should be passed round the limb, and made to tightly press on the side of the cut remote from the heart.

The blood from an injured artery is jerked or spurts out from the side of the wound which is nearer to the heart. If direct pressure will not check the bleeding, in this case a tight ligature must be passed round the limb, and be made to press especially on the part of the wounded vessel which is nearer to the heart

When bleeding is taking place from the external surface of the body from any cause, try-

Direct pressure on the part, and raise the limb above the level of the body. If the wound is in the leg, let the patient be placed on the back and raise the leg. The pressure may be produced by any soft substance, such as

a handkerchief, sponge, cotton-wool, or even the fingers.

If the above means are not attended with the desired effect, but the bleeding remains unchecked by simple pressure, it is necessary to pass a tourniquet or ligature round the limb as tightly as possible ummediately above the point from which the blood issues. A medical man should then be sent for, or the patient carefully removed to the hospital or to some place where surgical aid may be obtained. The ligature above alluded to may be made with a pocket-handkerchief, strips of cloth, rope, twine, or indiarubber cord. Fig. 28. - Tournquet

In cases of scalp wounds, pressure can be made on the wound itself by means of some soft substance, such as a handkerchief, cotton-wool, or a piece of lint.



Lief and ruler to stop

If a pad is made of such a substance, and held pressed tightly down by the fingers, it will in most cases at once arrest the bleeding.

Bleeding from the face and jaws may generally be arrested in the same manner—that is, by using a pad to press the wounded part down upon the hard bones, which are beneath.

When the bleeding is coming from a diseased surface—abscess, ulcer, or such like-and direct pressure does not check the flow of blood, the wound should be bandaged tightly with styptic wool, which may be prepared by soaking good cottonwool in a strong solution of alum or tincture of steel, and allowing it to dry gradually. If no styptic wool is at hand, then ordinary wool or linen rag soaked in cold water, and made into a pad, should be tied tightly round over the wound.

Varicose veins are due to the giving way of the little valves which normally regulate the flow of blood in the veins—the weight of the column of blood being uncontrolled, causes the veins so diseased to become dilated. When a varicose vein in the lex has burst, the limb should be raised higher than the rest of the body, and a handkerchief or other bandage should be tied

tightly below the wound.

In cases where blood flows from the nose as the result of injury to some of its blood-vessels, cold water or ice should be applied. Some persons are very subject to bleeding from the nose, by which means it not unfrequently happens that they lose a very considerable quantity of blood; in the case of growing children, and those suffering from debilitating diseases, this becomes a very serious matter, and means should at once be adopted to allay the flow of blood. In such cases the patient should be kept perfectly quiet on his or her back, cold being applied at the same time to the back of the neck, and a cold pad kept over the nose. If, however, such means fail to check the flow of blood, a piece of cotton-wool or styptic wool folded and tied to a piece of string should be introduced into the nose, and gently pressed upwards.

The vomiting or coughing up of blood in considerable quantities are symptoms of grave importance, which are often present in ulceration of the stomach and consumption in its many phases. In such cases the best plan is to keep the patient as quiet as possible; he should not be permitted to speak under any condition, but should be allowed to breathe fresh air freely, and ice or iced milk or water may be given. If the bleeding is very considerable, a cold wet towel may be applied to the chest, and if the blood flows from a broken vessel in the lungs, the patient should be allowed to inhale freely the vapour of turpentine mixed with steam. This may be prepared by mixing three tablespoonfuls of turpentine with about a quart of boiling water—the mixed steam and vapour given off by which may be inhaled by the patient.

In cases of bleeding, the patient frequently becomes weak and faint. This is not necessarily a dangerous or serious sign, for the faintness, which results in a quieted or reduced circulation, facilitates the staying of the bleeding, for, the rate of flow and pressure being reduced, the blood sooner congulates and forms little plugs of clot, which naturally close the injured vessels and check the flow of blood. Of course, if the faint is prolonged and the bleeding does not diminish, it becomes necessary to adopt means to revive the patient.

Treatment of Burns,-Burns are produced by flames and hot solid substances; they vary in severity according to the source of heat by which they are produced, and the length of time during which the injured part is exposed. They may vary in nature from a slight redness of the skin to complete

charring and destruction of the skin and flesh.

Scalds are produced by hot fluids: those resulting from oil or milk are more severe, as a rule, than those produced by water. The danger which attends this class of injuries varies with the part and the extent of the body involved; for example, even slight burns or scalds, which involve a large surface, are generally more serious than severe burns which only effect a more limited area. Where the burn or scald is slight, and there is no actual wound, the part may be bathed with, or soaked in, a strong tepid solution of washing soda.

The means that may be taken to relieve the suffering in the

case of this class of injuries are:-

Firstly, is to exclude the air as quickly as possible by pouring over the injured part some linseed or sweet oil

Secondly, carefully remove all clothing in contact with the part. If this cannot be easily done, the garments should be freely cut, in order that the pain and suffering may not be increased unnecessarily by dragging the clothes over the injured part. The oil may be poured upon or between the clothes and the body, if the burn is severe, for the oil softens the cloth and facilitates the removal of the clothes, thereby reducing the chances of tearing away the skin.

Thirdly, soak some cotton-wool or lint in linseed or pure sweet oil, and apply it to the injured part, renewing the application from time to time. Carron oil, which consists of equal parts of limewater and linseed oil, is one of the best remedies which can be employed. The oil employed may, be either linseed, olive, or almond oil, never any mineral oil, such

as paraffin or naphtha.

Owing to the inflammable nature of clothing worn in India, especially that of women and young children, it not unfrequently happens that the clothes take fire. In no case of accident is there greater need for presence of mind and coolness. Remember that air is necessary for combustion; therefore, if a person's clothes take fire means should immediately be adopted to cut off the supply of air. This object may be attained by enveloping the person in a cloak, rug, blanket, or similar article. People should remember that if a person on fire runs the consequences will probably prove fatal; a person whose clothes catch fire should throw himself down and roll over and over. Remember that persons who have been scalded or burnt suffer much from shock, and need relief from this; after attention has first been paid to the injured part, therefore, apply warm coverings and give warm stimulating drinks.

Treatment of Bites.—Bites of animals with sharp teeth, such as cats, dogs, and fishes, may produce one or more punctured or incised wounds, or tear the flesh and produce a lacerated wound, or they may simply cause abrasions of the skin. The mode of treatment to be recommended will, of course, vary with the nature of the injury. Where the pain is severe, hot fomentations or poultices are most soothing in their effects.

A great deal of misapprehension exists as to the danger incurred by the bites of dogs, and it therefore will not be out of place to remark that there is no fear that hydrophobia will ensue unless the dog is affected with the disease.

The following notice with respect to the subject of hydrophobia has recently been issued by the Brown Institution:—

"This disease occurs in dogs of all ages, and may appear at any season of the year. It is recognised by a change of demeanour of the dog, which becomes dejected, morose, inclined to roam, and anxious to hide itself. The animal gnaws at wood, stones, or any refuse which it sees, snaps at imaginary objects, and becomes unusually excited by strange or sudden noises. It rubs its throat with its paws, as if striving to get rid of some object lodged there; at the same time there is a more or less abundant flow of saliva from the mouth. The animal is, moreover, very readily excited, and barks with a peculiar, harsh, strange cough. The dog will attack its master or snimals of any kind; but it is most easily roused to fury by the presence of other dogs. It is feared and shunned by healthy dogs-not only when it attacks them, but when the disease is in a very early stage. There is throughout the disease no dread of water. Before the tendency to bite shows itself the animal may be unusually affectionate to his master licking his face and fawning upon him. In one form of the disease, called "dumb madness," there is a paralysis of the jaw, and therefore inability to bite. If a dog has shown any of the symptoms of madness mentioned above, or an unusual tendency to bite other animals, it should be at once loosemuzzled and securely chained up, but it is advisable that it should not be destroyed until it has been examined by some authority capable of determining whether the animal be rabid or not. Owners of dogs are warned of the danger they may incur by allowing their faces and hands (especially if scratched) to be licked by the animals, even if these show no sign of

When a person is bitten by a mad animal or snake at once suck the wound; do not lose a moment. If the wound be in a limb tie the part above the wound—i.e., on the side of the wound which is nearer to the heart—and encourage it to bleed; and then suck it again. This may be done without fear, provided that the operator has no wound on lips, tongue, or mouth.

Stings.—The pain caused by the stings of wasps, bees, hornets, mosquitoes, etc., may be lessened by a few simple precautions. The sting, when left in the wound, should be first carefully extracted, and it is a good plan to then press the barrel of a key firmly round the part. This precaution will prevent the irritating poison from spreading. As the poison is mostly of an acid nature, the application of a little alkali, such as hartshorn, to the injured part, will produce immediate relief. Common sola will answer very well; and in many cases application of soap, oil, or glycerine to the injured surface has been found useful.

Bruises and sprains.—When a part of the body is bruised it becomes swollen and discoloured, assuming a blue or blackish tint. Where the skin is not broken the discoloration may not be seen at first, but in the course of a few days the surrounding skin becomes yellow or red and blue. The discoloration and swelling are due to the escape of blood into the surrounding tissues; the part should, therefore, be kept at rest, and cold should be applied. The injured part should be bathed and kept cool by the application of very cold water. A piece of ice wrapped in linen and made into a cold pad is of great service. In cases where a bruise is associated with abrasion of the skin, it is a good plan to first apply a little vaseline to the wounded surface, and then place the cold pad or ice in position.

The sprains of muscles or joints are often exceedingly troublesome injuries to recover from. They require, in the first place, absolute rest for the part injured. An application of heat gives the greatest ease, therefore the part may be bathed with hot water. The addition of some sea-salt to the water will increase its usefulness.

Some prefer to adopt the "cold water cure." The object then is to keep down the temperature of the injured part by the repeated application of cold water. When the swelling is passing off, the part should be rubbed and carefully exercised. Too prolonged rest is not advisable, as stiffness follows.

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Fainting, fits, and sudden illness.—When a person becomes insensible through faintness, it is necessary to decide at once what means to take for his or her recovery. The following simple rules will be found of general use in such cases, but must, of course, be varied according to circumstances:—

- 1.—Lay the person flat on the back, without a pillow for the head; in fact, if it can be arranged, it is better for the head to be lower than the rest of the body.
- 2.—Lowen all tight parts of the dress, especially about the neck, chest, and waist.
- 3.—If in a close-heated room, church, theatre, etc., remove the patient to the fresh air at once.
- 4.—Smelling salts or spirits of hartshorn should be held near the nostrils.
- 5.—Cold water should be sprinkled over the face: and should the patient not recover, oold water may be applied to the chest.

 A towel dipped in cold water will answer for this purpose very well,
- 6.—On the return of consciousness, if the patient remains weak, administer stimulants in small doses.

When the fit is accompanied by restlessness or convulsions, cold should be applied to the head, and the patient should be restrained, and if consciousness does not soon return, medical advice should be obtained. It not unfrequently happens that well-intentioned people try to force liquids into the mouths of those suffering from convulsions; it is, therefore, well to remember that this practice is attended with the greatest danger.

Convulsions in children call for great promptitude on the part of those at hand. If the child is fairly strong it should be placed in a warm bath, and the head should be kept cold by a piece of linen or flannel soaked in cold water. If the child is weak, then a blanket bath should be administered instead of the warm-water bath.

Sunstroke and Heatstroke are a most common form of accident in India. While the former usually comes on quite suddenly when a person is exposed to the direct rays of the sun, the latter may be produced at night during the very hot season of the year. Where due care is taken to cover the head and back of the neck by means of a turban or sun hat the liability to sunstroke is reduced to a minimum. Against the causes which tend to produce heatstroke, however, the preventative measures are not so simple. The matters to be attended to are good ventilation of bedrooms and avoidance

of overcrowding. Abstinence from all alcoholic liquors is a great safeguard against heat- or sunstroke, and a good rule is to avoid sleep immediately after a meal.

Where symptoms of sunstroke or heatstroke occur—

- 1. Carry the patient to a cool, shaded place, or dark room.
- Remove the clothes at once, and lay the patient in a horizontal position, with the head and shoulders somewhat raised above the level of the body.
- Pour cold water over the head, chest, and spine, till the patient begins to revive, or until medical aid is obtained.
- 4. Allow the patient to remain as quiet as possible.

Poisoning.—Where a child or adult has taken poison either wilfully or accidentally, it is usually difficult to discover at once the nature of the poison which has been given or taken. It is practically impossible in this small work to give precise details of the symptoms which are indicative of different poisons, but at the same time some general rules may be laid down which should serve as a safe guide on an emergency.

It is first necessary to decide whether it is probable that any case of sudden illness is one of poisoning or not; and the following points should guide one in the decision:—

- In a real case of poisoning the symptoms appear suddenly. Such is rarely the case in diseases, save apoplexy, sunstroke, and cholera. It therefore follows that when a person is suddenly seized with any of the following symptoms—vomiting, purging, delirium, or insensibility—that poison has been introduced into the body.
- The symptoms make their appearance after food or drink has been taken.
- 3. Several persons who have partaken of the same food or drink will develop similar symptoms. Cholera is the only disease which is likely to affect several previously healthy people at the same time.

Having decided that a person has been poisoned, the next point is to determine as far as possible the nature of the poison. For convenience, all common poisons may be divided into three classes:—

- (a) Those which behave as narcotics and induce sleep.
- (b) Those which are corrosive and, in consequence, destroy more or less the membranes of the mouth and throat.
- (c) Those which cause delirium.

The narcotic poisons usually contain opium in some form or other. The symptoms are usually drowsiness and deep sleep. The pupils of the eyes become very much contracted, the breathing becomes noisy, and the skin warm. Vomiting rarely occurs without the administration of an emetic.

Treatment.—As soon as possible administer an emetic such as may be prepared by mixing one ounce of common table salt with six ounces of warm water. This should be given every quarter of an hour until vomiting occurs. A better emetic for adults is prepared by mixing about a quarter of an ounce of powdered mustard to six ounces of water. A still better emetic may be prepared from sulphate of zinc in doses of twenty to forty grains every quarter of an hour, or sulphate of copper dissolved in water in five to ten-grain doses. tendency of poisons of this class is to induce sleep, every effort should be made to keep the patient awake by giving drinks of strong coffee, walking exercise, and cold water should be dashed over face and neck. In extreme cases, artificial respiration, as described on p 88, must be resorted to, and kept up for several hours. It is advisable to administer a purgative some hours after vomiting has been induced.

The corrosive poisons include all those which tend to destroy the lining membrane of the mouth and alimentary canal. They are distinguished at once from all others by the fact that they cause acute pain. Poisons of this class are often called acid poisons, but they include strong acids, alkalies, and certain metallic substances.

The acids which are most frequently met with as poisons are:—carbolic, oxalic, hydrochloric or muriatic, sulphuric or oil of vitriol.

The alkalies which commonly give rise to cases of poisoning are caustic soda.

The metallic substances are compounds containing mercury. Treatment.—A person who has taken a poison belonging to either of these classes usually complains of burning pains in the throat and stomach, accompanied by vomiting and purging. Emetics should not be administered, but olive or linseed oil or egg should at once be given.

Where the substance is an acid, give some harmless alkali, such as chalk or magnesia. In cases where alkalies have been swallowed, some mild acid should be given, such as acetic acid (vinegar), or the juice of lemons.

The poisons which produce excitement and delirium usually.

cause a peculiar taste, and give rise to thirst, and pain in the stomach and throat. In India the best known poisons of this class are opium, datura, and arsenic. The symptoms vary with the amount, the kind of material, and with the individual; but usually they take the form of excitement, followed by sleep and delirium, insensibility and death; convulsions sometimes occur.

Treatment should be the same as in cases of narcotic poisoning. The first point to be attended to in both cases is to rid the stomach of the objectionable matter by the action of an emetic, and then to administer some soothing drink, such as raw egg or egg and milk. When recovering, the patient needs stimulant, such as strong tea and coffee.

The following general rules should be remembered and acted upon in cases of poisoning:—

- When a person who has swallowed a poison seems likely to go to sleep keep him awake at all costs.
- 2. Should be exhibit a tendency to go off into a fit, throw cold water into his face.
- When there are no stains about the mouth or burning of the skin, give an emetic at once, eggs, milk, linseed or salad, but not almond oil, and then strong tea or coffee.
- 4. In cases where there are stains about the mouth and burning of the skin do not give an emetic, but oil at once, followed by milk, or raw egg and flour beaten up with water.
- Where phosphorus is the poison do not give oil, but frequent doses of magnesia and water.

Foreign bodies in the eye, nose, and ear.—It not unfrequently happens that particles of dust, pieces of stone, metal, insects, etc., lodge under the eyelids, and give rise to much irritation. Any of the above may usually be removed with the folded corner of a handkerchief. If much dust has passed under the cyclid it may generally be removed by carefully syringing with warm water. After the removal of the irritating substance, if the eye continues to be painful, it is a good plan to drop between the lids a little sweet or

olive oil. If the pain still continues, a cold, wet compress should be applied. Quicklime, pieces of mortar, or other matters which are likely to irritate and burn sometimes find their way under the eyelid. They should be removed as speedily as possible, and the eye should be bathed with warm water and a little oil dropped between the lids as before.

Young children sometimes push pieces of pencil, parts of toys, beads, etc., into the nostrils. They should, if possible, be at once carefully removed; if it is difficult to do this, a surgeon should be consulted.

Flies and insects sometimes find their way into the ears. Sometimes children introduce into the tube of the ear bodies similar to those passed into the nose. The ear should, in such cases, be syringed out with warm water, and a little glycerine or oil dropped into the passage; but if the body is a solid, like a bead or piece of pencil, and it is not washed out by the syringing, then medical aid should be called in. The inexperienced should not try to remove the foreign body except by syringing, for efforts in this direction may result in injury to the delicate drum of the ear.

The following system of restoring the apparently dead is recommended by the Royal Humane Society of London:—

If from drowning, suffocation, or narcotic poisoning.—Send for medical assistance, blankets, and dry clothing, but proceed to treat the patient instantly.

The points to be aimed at are—first, and immediately, the restoration of breathing; and secondly, after breathing is restored, the promotion of warmth and circulation.

The efforts to restore life must be persevered in until the arrival of medical assistance, or until the pulse and breathing have ceased for an hour.

Rule 1.—To adjust the Patient's Position. Place the patient on his back on a flat surface, inclined a little from the feet upwards; raise and support the head and shoulders on a small firm cushion or folded article of dress placed under the shoulder-blades. Remove all tight clothing about the neck and chest.

RULE 2.—To maintain a Free Entrance of Air into the Windpipe. Cleanse the mouth and nostrils; open the mouth; draw forward the patient's tongue, and keep it forward: an elastic band over the tongue and under the chin will answer this purpose.

Rule 3.—To imitate the Movements of Breathing.

First.—Induce inspiration. Place yourself at the head of the patient, grasp his arms, raise them upwards by the sides of the head, stretch them steadily but gently upwards for two seconds. [By this means fresh air is drawn into the lungs by raising the ribs.]

Secondly.—Induce expiration. Immediately turn down the patient's arms, and press them firmly but gently downwards against the sides of his chest, for two seconds. [By this means foul air is expelled from the lungs by depressing the ribs.]

Thirdly.—Continue these movements. Repeat these measures alternately, deliberately, and perseveringly, fifteen times in a minute, until a spontaneous effort to respire be perceived. [By these means an exchange of air is produced in the lungs similar to that effected by natural respiration.]

When a spontaneous effort to respire is perceived, cease to imitate the movements of breathing, and proceed to induce circulation and warmth (as below).

Rule 4.—To excite Respiration. During the employment of the above method excite the nostrils with snuff or smelling-salts, or tickle the throat with a feather. Rub the chest and face briskly, and dash cold and hot water alternately on them. Friction of the limbs and body with dry flannel or cloths should be had recourse to. When there is proof of returning respiration, the individual may be placed in a warm bath, the movements of the arms above described being continued until respiration is fully restored. Raise the body in twenty seconds to a sitting position, dash cold water against the chest and face, and pass ammonia under the nose. Should a galvanic apparatus be at hand, apply the sponges to the region of diaphragm and heart.

Treatment after natural breathing has been restored.—To induce circulation and warmth. Wrap the patient in dry blankets, and rub the limbs upwards energetically. Promote the warmth of the body by hot flannels, bottles or bladders of hot water, and heated bricks, to the pit of the stomach, the armpits, and to the soles of the feet.

On the restoration of life, when the power of swallowing has returned, a teaspoonful of warm water, small quantities of

wine, warm brandy and water, or coffee should be given. The patient should be kept in bed, and a disposition to sleep encouraged. During reaction large mustard plasters to the chest and below the shoulders will greatly relieve the distressed breathing.

Note.—In all cases of prolonged immersion in cold water, when the breathing continues, a warm bath should be employed to restore the temperature.

If from intense cold.—Rub the body with snow, ice, or cold water. Restore warmth by slow degrees. It is highly

dangerous to apply heat too early.

If from intoxication.—Lay the individual on his side on a bod, with his head raised. The patient should be induced to vomit. Stimulants should be avoided.

If from apoplexy or from sunstroke.—Cold should be applied to the head, which should be kept well raised. Clothing removed from the neck and chest. Stimulants avoided.

Appearances which generally indicate death.—There is no breathing or heart's action; the cyclids are generally half-closed; the pupils dilated; the jaws clenched; the tingers semi-contracted; the tongue appearing between the teeth, and the mouth and nostrils are covered with a frothy mucus. Coldness and pallor of surface increases.

The treatment recommended by the Society is to be persevered in for three or four hours. It is an erroneous opinion that persons are irrecoverable because life does not soon make its appearance, as cases have come under the notice of the Society of a successful result even after five hours' persoverance.



PART II.

FAC-SIMILE

LETTERS OF PARENTS

AND

PHOTOGRAPHS OF ANGLO-INDIAN INFANTS

Reared upon Mellin's Food.





MASTER BEVAN. (Aged 9 months.)

The Pharmacy muconie n.WP India 16.6.91 nepu Mellin Ho Dear Lus I am requested by M. Bwan of this station to send you the photo of John Fiam Bevan ploto talen on Other day he was a monthi old + fed on nothing but Mellins Food. Mr. Bevan would like to know what saper you put the photo in if it is inserted your suly.



MISS DODSON. (Aged 9 months.)

hechorpoly south Indea 1890

Steey to emclose you one of may let be get from the was a month old when it was taken last month the weight is 25 ths.

for suc months 3 nursed her entirely mapely, sence that time she has been taking your food also in increasing proportions.

Shape a great belief in gour food as it seems to out all children and restainly ong taby is considered a wonder of health for an Sordian child, for which correspondence only becomes ion to make any wee you like of this testimonical or public for pulsuealism.

Clien a Doubont
(Ans T. K. Dodown)

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and the property of the second of the property of the



MASTER WOOLWARD. (Aged Θ_2^1 months.)

The Green,

Monghye,

India

Dear Sir.

I have much pleasure in sending you a photo of my baby Fred, taken when he was 9\frac{1}{2} months old. Since the age of two months he has been entirely fed on your Food, the photo speaks for itself how well he has thriven, and for an infant brought up on the plains of India, he is strong, sturdy, and remarkably healthy.

I cannot speak too highly of your Food, and shall always recommend it as decidedly being the best for infants.

Yours truly,

Katie Woolward,

Oct. 20, 1894.



MASTER GERALD MURRAY. (Aged 8 months.)

The New Home.

Mussoorie.

N, W, P.

Dear Sir,

Enclosed you will find a photo, of my baby boy Gerald Murray, aged five months, who has been brought up on your Food from the first two months.

Yours faithfully,

G. W. MURRAY.

October 28, 1894.



MASTER WILLIAM JOHN EALES. (Aged 1 year 11 months.)

WIELST Madras

Madras 15 th Declar_ 1892.

The Secretary, Mellins Food Company for India Rickham

London S.E.

Dear Sie,

I have this day sent you under separate cover

Photos of my lettle Daughter & Sow.

They have both been brought up on your food o it has certainly agreed wonderfully well with them, for

they are very fine Children. I have also recommended your preparation to sense of my Native Friends and will be glad to hear the once sichly looking pury offspring have picked up + thrism

splendidly. You are quite at liberty to make any use you please of this spontaneous expression of opinion on my part & also of the Tholos of my little ones. Jan Dear Sis.



WILLIAM HENDERSON ELDER. (Aged 2 years.)

Steamer Mysore Calcutte India formary 15 th/95.

I Mellen of 27

Stave on we pleasure on Stade of the sure of the pleasure of the sure of the s



MASTER A. E. H. FRASER. (Aged 10 months.)

Bandárapola Estate Mátali Ceylon min France sends a photograph of her Baby-10 months old. He was very delicate just at first . . but since heing fed entirely on Mellins Food he has never had a day's illnear, To passing through the trying ordeal of teething with apparently no suffering, his skin is exquisitely fair without spot or blemish and he is perfectly healthy and strong . His weight is 27/15; his height, 2 feet y inches, and out here in the East he is Considered "an exexptionally fine child for his age".



MISS GRIFFITHS (Aged 8 months.)

b Harr Shie L Calenta Jaure 31:292

(Den Sur)

with reference to my letter a pretright succe I have nade my daughter pholograph ed recently so send you a copy at the age of Lyears and 2 mins. I shall be much obliged of you will builty on he eight of his return me the labour of myself with alkel in my anis you may make Ise of her pholographs but not my previous letter the bollowing will be quite Suffecult Elhel Florence frefelis hes here fed enterely or heleus Fract and is remarkably erry and healthy for a Calcutia Child Jans very truly

Florene Freffich



MASTER JACKSON. (Aged 11 months.)

Ita. galow Madras & June 1523 The Mellow Fund We time much pleaned in Lading That's which we built will peach your Sofily of which please nestimulage. The child is a lon of Everfrance francisto, is elma montho ald, weight both hus already & test, has been houghton I is least in Milling - Fairly the along Wift in hi heat afteatet. Many of the Rostons Say that it is the finist child ity had wer how Ou walnut Vi not forein) were Manager.



MISS ROSE LAPERE. (Aged 4 months.)

Rangoon Burmah 18/7/1893 Dear Lin I have great pleusure of sending you a is hoto of my little Daughter Rose; who has been brought up from her burth on Hellins he slittest hepitation she the supplest meaning and healtheast in India and healtheast in India and fait your food the enclosed fohoto was taken when whe was four months and six disposed yours timesty has Lafaert

Energhands 46 atel



ANNIE K. V. LOUGHTON, (Aged 18 months.)

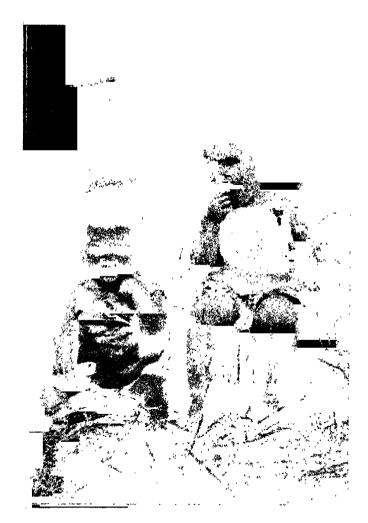
annie Hathleen Violet Loughtow - 18 months Hed entirely on Mellin's food Weight at 18 months of age 25 Ms Born in afsam and never been out of it. With the Jathers Compts to Messer hellins address.

Judia Jeypoore assam



MASTER NOLLER. (Aged 11) months.)

taby, and the Order amount me that be write and live more than leaveter blage. The fortundeley the Eure person who has knowed reject auces.
Melen no to be
from for Hydels
R. Herein 18the
M. Herein 18the
M tim up for me decided to bry you fook, and it has been a liengal Saaa 12 lang 1894 8 4 9



MISS FLORENCE PALMER.
(Aged 2 years 3 months.)

MISS MAUD PALMER.
(Aged 13 months.)

Tharrawaddy,

Lower Burmah,

August 13, 1894.

Dear Sirs,

I have much pleasure in sending you a photograph of my two children, Florence and Maud Palmer, aged two years and three months and one year. They have been entirely brought up on your Food since their birth, and have given me no anxiety, as they have kept perfect health, and teethed very easily. Both began to walk at the age of ten months.

I should like to mention to you that I did not find the quantities given in the directions agree with my children.

When they reached their third month I was then giving them a full tea-spoon of your Food, at six months a dessert-spoonful, and a table-spoonful at the age of a year old, and I found them do excellently. I know of two cases where mothers have tried your Food according to directions, and have been obliged to stop it, as it has not agreed with their children: but no sooner the quantities were lessened the children did well.

I have recommended your Food to all mothers, as I think that through it my babies have been reared, as they were very delicate children when born.

Please acknowledge the photograph, as I should like to know of its arrival.

Yours faithfully,

E. M. PALMER.

To Messrs. Mellin, & Co., Marlboro' Works, London, S.E.



MISS PEARSE.
(Aged 14 months.)

● さんかいもごないも (本)をできても、あいもくもいものも、もいも、も、も、も、も、も、もいもいもごもだもいもいもいもの Sir a liberto prosporta Should y Suffer how that the last Male Shuck Killy Rom Low Works from Theren 4. Elitera A. An Markey ***** the r. for ford ford M. Billing Seaveling of them line for Still Mula Garea The Buch Lud hore.



MASTER WALTER C. PRICE. (Aged 5 months.)

163, Camp Road,

Rangoon,

Burma, India.

Dear Sir,

I have much pleasure in sending you a photo of my little son, Walter Cyril, who is considered by all those who have seen him to be the prize baby of Burma, thanks to Mellin's Food, on which he has been fed since he was six weeks old. The photo was taken when he was only five months. I trust that the photo as an advertisement will speak for itself out in this land of banishment, and prove what a boon "Mellin's Food" is for infants.

Yours truly,

MARY PRICE.

15, Royal Street. Calcutta.



MISS TAYLOR. (Aged 8 months.)

Courtallum Sinnevelly Disk South Findia 12 December 1893

Dear Sis.

I have much fileasure in sending you a photo of my daughlis Cladys who is just eight months old the has been fed on mellins Food with Joats brich. as I have a deal of bravelling to do in villages where no fresh much can be procused. I have begun given his your dacto Chrose, really this is such a convoluent food to take about I it has eased me no end of anxecty. Cladys thrives neety on it. I cannot speak too highly of your food I of a your bisenits which she enjoys.

Your bisenits which she enjoys.



MISS C. MAY TEMPLE. (Aged 6 months.)

of the fact of the the a man in the state of the state o



MASTER DAVID THOMSON. (Aged IO months.)

Sangor Central Provinces India Sept 10 2 1093

Dear Sur

I herewish send you the flutegraph of my little boy of Dand Shomeon, aget ten mouther I have feel him on Malline food hung a feet weather in the flams, in India, and he has keft workefully will and strong.

four fallfully (NOT) a. Kuson



SOPHY FATEY

1, Westfield Terracc,

* Ballatern,

Aug. 22nd, 1894.

Dear Sir,

I think you will be interested to see the enclosed photograph, and may wish to use it as an advertisement for your wonderful Food. The child is a little girl from Agra, India. She was picked up and laid in a basket on my doorstep early last year. I sent her to an Orphanage five miles from Agra, and the wife of the Superintendent, Rev. A. H. Wright, C.M.S., has written to me lately, enclosing the little girl's picture, and she says, "Sophy Fatey, just as she is, she was but skin and lone, and we feared dying; as a last hope we gave her Mellin's Food, and the result was wonderful."

Yours faithfully,
SOPHIA BLAND.



MISS C. MAY TEMPLE AND AYAH. (See p, 124.)



PART III.

DIRECTIONS FOR THE PREPARATION

OF

MELLIN'S FOOD

IN

Guzerati Telugu Sindhi Marathi Persian Urdu



GUZERATI.

્રમાળકા તથા અશક્ત માણાસાને માટે મેલીને બનાવેલી ખોરાક.

ષાસુ નાંખાલા ગાયના દૂધમાં નામે કહા-પ્રમાણુ મેળવીને આપ્યા હેાય તા અને માના દૂધ-ની મરજ 6 વમ રીતે સારે છે. બાળકા તથા અશક્ત મધ્યુસાને માટે અને 6 વમ ખારાક છે. અરાક્ત મધ્યુસાને કહેવું છે.



ગરમ કે એજવાળી હવાથી ત ભગેડ ર્વ્યાય આરાક તે આજ છે. કારણ અનાજના હા-સાને સુકવી કારા કરી વાણીમાં મળી અવ એપેલા તેના એ રસ છે અને તેમાં છવતી ખોજ ખિલકસ તથી

મેલીને ખનાવેલો ખારાક ભાળકા તથા અશક્ત માણસાને માટે ઉત્તમ શા માટે છે. તેનાં કારણા.

 મેલીને ખનાવેલા પ્રાથક દૂધમાં મેળત્રા હાય તો તે પુદરતા પ્રાથકના જેવા સંપૂર્લ પાશક થાય છે. અને તેમાં આખા શરીરતી પુષ્ટિ તથા આધારત માટે જાઈતા સઘળા પદાર્થો છે.

ર.-મેલીને ખનાવેલા ખારાકમાંના પદાર્થા એવી સ્થિતિમાં છે કે તે એકદમ શ્રારાના છવતા શાહીની સાથે મળી ભય છે.

3-મેલીને બનાવેલા ખારાક રસાયથશાસ્ત્રના તથા શરીરશાસ્ત્રના નિયમા યમાથે વૈયાર કરેલા છે.

V.--મેલીને ખનાવેલા ખારાક લાંદના ખનાવેલા નથી તેમજ તેમાં સ્ટાર્ચ નથી.

૫-મેલીને ખનાવેલા ખાયાકમાં ખરમાં જે ખાંડ ઢાય છે તે નથી.

६ - મેલીને ખનાવેલા ખારાક કાઈ કાચા અનાજના દાવા મસળીને અનઘડ રીતે તૈયાર કરેશા નથી.

૭.—મેલીને ખનાવેલા પેમારાક સારામાં સારા જવ તથા ધર્ષના ક્રોહમાંથી શ્રીમીમની ક્રિયા મુજબ શુષ્ક શાસ્ત્રીય રંગે તૈયાર કરેશા છે

૮. – મેલીને તૈયાર કરેલા ખારાક પાથીમાં મળી જાય એવા છે. અને તેમાં હાલાં કે ન પચી શેંક **ીલા** કાઈ પશુ પદાર્થ મુદલ નથી

e.—મેલીને ખનાવેલા પ્રમારાકનો ખનાવડમાં નીરામી માલસોના શરીરમાં સ્ટાર્ચવાળા પરાર્થા જે સ્થિતિમાં પત્રે શ્રે તેવી સ્થિતિ રાખ્યાયી એ ભારાકના શાચામાં જે સ્ટાર્ચ શ્રે તેમાં તદન કરકાર થઇ મયક્ષે શ્રે.

૧૦.—મેલાં મે ખનાવેલા ખોરાક મળ્યુત ને તંદુરસ્ત તેમળ નિર્ભળ અને રાગી માલાસાને જેવાં રાતના એ**કેંધે તેવી** રાતના સમળુતામાં કહ્યા પ્રમાચે તૈયાર કરી શકાય ખેતા છે.

૧૧. – મેલીને ખનાવેલા ભારાક સ્ત્રભારે એલકલાઈન છે. તેથી ખરાકત માથસામાં અપયા થઇ શકતા નથી.

૧૨-મહીને ખનાવેલા આશકને લીધે બાળકાને તેમજ અશકત માથસાને ગાયન દુધ પચાવલ સેહેલું થઇ પદેશે.

૧૩. – મેલીને બનાવેલા ખારાકથી માત્ર દૂધ વધે થે તેમજ તે વધારે મુખકારી થાયછે

૧૪. – મેલીને અનાવેલા આશાક માના દૂધના સાથે પણ આપાશકાય એમ છે, અને એથી યાવલા લાક્સાનાનું કામ વપાર સતક માયછે

મેલીને ખતાવેલો ખોરાક ક્રેમ વાપરવો તેવિશે સમજૂતી.

૧. – ત્રક્ષ મહિનાની અંદરનાં તથા નાજીક બાંધાનાં છોકરાં માટે.

૧.— ષા પાર્પન્દ (પાવવાની અડધા શોશોપુર) પાર્શ્વા કેવું અને તેમાંથી એક દેખલ ૧પૂત એટલું (એક શ્રીસ) સ્માર્થી નાની રકાબીમાં રેડવું

ર.—પક્ષી તેમાં એક ટેખલ સ્પૂન જેટલા મેલીને ખનાવેલા ખાશક નાખરા. અને તેને દેવતાની સેંદ્રેજ આંચ ઉપર પૂરી કલાવી દલાવા પાંચોમાં મેળવા દેવા

રાત્રા પ્રાપ્ત માર્ચ કર્યો કર્યો ભરાય એલ્લા કાર્ટી માયલું તાર્લું દૂધ અને એ પાથી લાઇ રહ્યું હોય તે ઉપેન રહ્યું અને તે એઇએ તેલ્લું ગરમ કરશે.

ર.-- વસ મહીનાથી મોટી ઉમરનાં ધ્યાકરાંમાંઠે.

ર.—મેલીને અનાવેલો ખોરાક એક ઢેબમ સ્પૂન અરાંગે ક્રેઈ તેને ધાર હળક સ્પૂન એક્સા **પાર્થામાં ઉપક** ખતાઓ મુજબ મેળવવો ૨—મલી તેમાં ચાડવા પાર્કેન્ડ થવા માટે એડલું એકો તેઠલું સાથત લા**લે ક્રેય ઉપર**નું અને તેને એકોર્લ થયા કર**ે**

& - માતાઓને માટે અગત્યની ખબર.

- ખોરાક કેટલો જોઇશે.? ઉપર સમજૂતીમાં જે માપ બંતાઓ છે તેટનું ધાવવાની હોંઘી ભશવા માર્ઢ બક્ષ કુ મારે અને એટલો ખોરાક ત્રથા કે ચાર મહીનાના બાળકને એક વખત ખાવાને માટે બસ છે. એટલું ભુષ્કું એકી વખત બાળક ખાઇ ન શકે તો, બારૃા વર્ષ તે કેંકી દેવું. કારણ તેને કરીથી ગરમ કરતાં તે ખાંદું થઇ જાય અને ખાવાના કામમાં ન આરો. તૈયાર કરીમાં ખોરાક ધાવવાની શીશીમાં ભરેવા અને બધા ખોરાક ઘંધું દેશતા સુધી બાળકને તેમાંથી સુસવા દેવું. શીશીમાંનો બધા ખોરાક ઘર્ષ રહેવાં પહેલ ખાળક પ્રસાધ ધું એમ જથાય તો તેને વધારે પાવાની તાયાન કરવી વધારે ખારાક ચાર્ચ રહ્યાના કરવા માંઢે એટલે સામજનું કે તેને જે હોતો ખારાક તેથી બીચા છે. બાળક ખાઇ રહે એટલે તરત રીધી આપી ખારેડી સેવી. ખાલી શ્રીષ્ટી ચૂસવાયી બાળકને નુકસાન થાય એમ છે. કારથા એથી તેઓ હવા ગૂસે છે અને પદ્યો તેને ખેંચેની લાંગે છે,
- શાંશા યુત્તવામાં આવેલું છે કસાને થોય અને જે કારથે અધા તેઓ દેવા ધૂર્ય છે અને પણ તેને બચાના ક્ષાય છે, ૧૯- કહું દૂધ લાપરહું ભાર કું બનાવામાં જે દૂધ લાપરહું તે બેઇ ધે તેના કરતાં હયારે સરલ ન કરતું. ઉક્કા-જાામાં દુધ સેંદ્રેજ ન પચે એહું થઇ જાય છે. માટે દૂધ ઉકળતું ન ઘાય તેની થથી સભાળ રાખવી. ઉક્કા-ળામાં તેને ઠંડી જગામાં રાખલું; નહિં તો તાજ દૂધમાં એક ચપરીભરી બાઇકારેખોનેટ એમક રાદારા નાખી તેને એકા સેક્ક-ડ સુધી હુબાલનું અને પછી તેને જે લાસભ્યમાં રાખ્યુ હોય તે વાસભ્યને તાજ પાંચીના લાસભ્યમાં કું આવતું દૂધ થણું સાર્વ હોય અમયવા બાળકમાં અપચાના ચિન્દ જથાતા હોય તો દૂધ પરની તર છેને તો કાઢી નાખવી, ખાળેકા પાતાના સ્વાભાવિક ખૂરાક ક્ષેતાં પથે કંદાળા ખાય છે. બાળક એક તેમાં જે ખદારાની લાસ આવતો હાય તા ખારા આપતા વખતે દરેક શીશામાં ચપડી ભરાતે બાઈકારબાનેડ એક પાડામાં નાખતે. જ્યાનમાં ક્રાંચ માં ગામનું દૂધ મળીશકે ત્યાં મુખે કાઇપુણ જાતનું ઠેરેલું દૂધ વાપરલું નહિઃ ઠેરેલું દૂધ વાપરલ્જ પડે તો જે જાતનું દૂધ ખાંડ નાખ્યા વિના તૈયાર કર્યું હાય તે જાતનું દૂધ વાપરનું નહિ તે, ગળપણ અતિરાય થઈજો.
- केंद्रमा जाजबने आपता पहेंसा तरत बना बरी आपना.
- ૪ ધાવવાની શીશી. અને નળી એ ખંને ખ્રામ ક્ષળજીથી સાક રાખવાં. દરએક વખતે ખવડાવ્યા પછી તરતજ તે બંતેને ધાર્ક લંહા લાહા બોછ તેમતે મુખ પડતાં સુધી તાઢા પાંચીમાં રાખી મુકવા, બે શીશી રાખો ઢાય તો ઘણા સાર્ય: કારેલા કે લારા કરતી લાપરા રાકાય.
- ૫-- ખાળકના શરીરના ખાંધાના મમાભુમા તેને વધતા ઓછો ખારાક જોઈય છાયે કેટલાક ખાળક તદુરસ્ત, મજબૂત -ખાળકના શરારના ભાષાના સમાહમાં તેને વધા ભાષા ખાતાક જોઇય છો.વ. કેટલાંક ખાળક તુરસ્ત, મજબૂત ને સુંપર્શ્વ ખાતાના દાયકો ને નેટલાક રીગો, નાકોગ્રત ને કસવાનાના કોંગ્ર છે. આપી આ ખારાક હરેક આહેલાં જોઈશું એમ નિશ્વય કેઢેવાય નહિ. 'કેટલાક ગ્રાક્શને બાંજે માનાકરતાં બમચા જોઈશે. આપી આ ખારાક તૈયાર કરવામાં તથા ચેળવવામાં માએ તથા દાઈએ પાતાની નજર પર્લચાડલા. પહેલાં ને ત્રથ સાઠવાડીયા સુધી ખવ-ડાવવું તે માકકસર તથા વારે વારે ખવડાવવું. આબંધી ઉપરતા નાગકોને દર ખેં ખેં કલાકે છે કે આઠે બ્લાસ્પ્યુન સ્થારીને ખારાક આપ્યા હોય ત્રા ખસ છે, અને પહી બાળક જેમ જેમ મોટું થવું જાય તેમ તેમ ખારાક વધારવા. એક વખતને માટે ખુસ લગતો હોય ખેંદેશે ખોરાક આપ્યા પછી પથા બાળક પરાયશું ન જ્યાય તો પોડા ખોરાક એક વખતને માટે બર્સ સંમતા હાય ખેલસા ખાર કે ખાખ્યા પણ પંચામાળક ઘરાવવા ના વ્યાવ તા વાગ ખાયાક સર્કિતમાં તેટલું પાસ્થી નાખીતે આપીરા. અને દૂર્ય વાપરંતું તેમાં પહેલાં કરતા જરા ઓધું પાસ્થી ભાગલું. પસ્થા જેને શાળકૃત્ર ખોરાક ભારે પડે છે એમ જસાય તા સંખળતામાં કહ્યા છે. તેના કરતાં ખારાક જરા એણા હોવા સ્થાન દુધમાં પાથી સંદ્રેજ વધારે નાખવું. દરેક ખાળકને માટે ખારાક પાથી તથા દુધ કયા મમાશ્રમાં સેવાં એ બારીક નેજર શખ્યાથી તથા વારે વારે તપાસ કર્યાયા જણાઇ આવશે.

લાશો કોંડા એમ ધારે છે કે ધાંડા ખારાક વધારે પૃષ્ટિકારક છે. પદ્માં એ ધારલે ભૂતભરેલું. આનુ દૂધ લાલું યાતા હોય છે પદ્માં તે તુરસ્ત અવસ્થામાં ઉત્તમ ખારાક છે, ધાંડા પદાર્થ ભિનકુન પચેતા નથી. અને તૈર્ધા તેનાથી પૃષ્ઠિ ખળતી નથી. એલીને બનાવેલા ખોરાકનો એક કાયદા એ છે કે તેને મેળન્યા પદ્મી તે પાના પાતાના તારુ નેવાલા પાતાના વારા કરવા કરવા તેવા છે. પાના મા મા મા મા મા મા મને તે પહેલું પ્રક્રિયક કહેલ્લ છે ૪.—ખશક્ત માણસા તથા જે માતા પોતાના છોકરાંને પોત ખવાડતી હોય તેને માટે સમજીતી.

૧.— એક ઠેખલ સ્પુન જેટલા મેલાને ખતાવેલા ખારાક લઈ તેને ચાર દેખલ સ્પુન જેટલા ઉના ખલીમાં મેળવરા. ૧.— એક ઠેખલ સ્પુન જેટલા મેલાને ખતાવેલા ખારાક લઈ તેને ચાર દેખલ સ્પુન જેટલા ઉના ખલીમાં મેળવરા. ૧.— પડી તર્હિ ઉકાળનું એવુ એક પ્યાસા ભરાય એટલું નાયનું કૃષ ઉનેરવું આવ્લો ખારાક દિવસમાં એક્એ તેટલી લાર ભાપરા, વધારે આપવામાં પદ્મ હરકત નથી. એલીન ખતાવેલા, ખારાકની સાથે દૂધ. ભેપ્યાથી નર્યાદ્ધ કરતાં તે વધારે વહેલું પચે છે. પછા આમ કર્યાથી અપચા જલાય તો પેમાં પાથી ઉમેરવું અથવા તો એલીનના સ્થોકાહતે મામ્માન પેળવરો

જે માતા પાતાનાં શાકરાંને પાતે ધવાડતી હશે તેને મેલી નનો ખાસક ઘપો સારા માલમ પડશે. વ્યવસ્થે જ્યારે તે પાતે પાતાને ભોગી તેઓ સાધારેલ ખારાક નહેં મળી શકતી હોય ત્યારે. મેલીને ખનાવેલો ખોરાક લીધાલી આતાનુ કુધ વધારો તેમજ તે વધારે પ્રષ્ટિકારક થશેઃ

મહિલ્દિકેટી.

દાડતર પસ્ટેસસ્મિય, બેલજીઅમના રાજના ઐકસ્ટા આરડીનરા ઉદ

પ જ્યોર્જ સ્ક્રીડ, હાનાવર સ્ક્રવેશ

di. 90 મી મે સન ૧૯૭૦

નાળકાને મહિતમે જે ખોરાક બનાવ્યા છે તે મારા જાણ્યા મેળે ખેતી જાતના બીજ ખારોકા કરતા પશે જ સરસ છે. બાળક તંકુસ્ત હાયકે રાગી હાથ તો પથા તે બંનેને એ સરખા રીતે માકક આવતો જથાય છે. અને પથા ભાગે છેક નાનાં બાળકાને તે ભારે પડતા નથી. જે ખારાક આવી રાતના માલમ પડેથો છે તેના વખાય કરવાન વધારે કહેવાની જરૂર નથી. અને ઢાલમાં એના ખપ પહેલાજ થઇ પડેયા હશે એ લાલત મને ભિલકલ શક રહેતા નથી.

યસ્ટેસ ઉમાય, ખોમ, ડી.

केन टेन्क हेरीयडन अनुरक्ष डिस्पेन्सरी तथा सार्धर्ण यारीटीमाना चेएक्स्टेटिक हीजीशीयन शयम क्रीय अन्द्रन दिस्येन्सरिना भाक वेद. अने द्वासंभन्भर सेन लेसना देखारी मेडियस आशीसर

આલેક હીસ, ૧૧૯, ન્યોર્ગિટન કેલ્પ્રેસ, એસ, એ. ता १६ भी कानेवारी सने १६६६.

બાળકોને માટે જે બીજા સોકો એ ખોરાક બનાવેલા છે. તેની સાંબે તમે ખનવિલા ખેરાકને પદ્મ મેં અજમાવી જોયો શ્રે અને મારી ઢેવ પૂરેપૂર્વ ખાતરી થઇ શ્રેકે બાળકના શરીરનું બધારણ જલરીથી તંદુવસ્ત થાર્ય એવા પૃષ્ઠકાવક મુશ્રા તમે બનાવેલા ખોરાકમાં છે. તેવા બીજા કોઇનામાં નયાં આઠલા સાર્ફ્રેક્ટ હમેશાં બીજા ખોરાકા કરતાં તમે બનાવેલા

भोशकी वधारे पर्संद क्रंडेर्स ઓત દેતર એમ ડી.

૫૫. વિસ્પોલ સ્ટીડ, તા ૧૬ મી ડિસેંબર સને ૧૮૭૦.

કેટલીક લખતે તો જે બાળકા બીજો કાર્પપદ્મ જાતના ખારાક લઈ શકતા નહિ તેમને તમે બનાવેરેને ખારાક આપી હું તેમના જીવ બચાવી શક્યો હું, એવું એક વખત બન્યુ નથી કે તમે બનારેરેને ખોરાક લઈ તૈયાર કરેશે ખોરાક દરહીને સદયા નથી. અને બાળકોને માટે તો એ પ્રદ્યાજ પુષ્ટિકારક ખારાક નીવડયા છે.

કુ પાંકુ લંકુ તમે બનાવેલા ખારાક રાકતરાને તેમજ સેકિંાને વધારે જાથીતા ઘરો ત્યારે તેના ખપ પહેલાજ વધી जर्देली दाल ओर आर. भी क्रोस ઉદ્ભાની તમે સારી આગા રાખી શકેત

भरी नश्य

મુસર્સ કેમ્પ્રેં અને કમ્પની હિંદુ રેતાનમાંના આડતીઆ. ઉદેપુર તા. ૧૨ મી કેશું આવી ૧૮૭૨. મહુકમાં. બાલોનો માટેના મેલીને બનાવેલા. ખોશકની બે કંઝન બાદલી મારા ઉપર માંકલાવદો. તમે અમાર્ચ મોકલી હતી તેલીજ વિસંત્ર ભેરુ કમ્પની અમદાવાદ, એ રીતે સરનાપું કરજો. આ ખારાકનું વખાલ્ય પશું થયું એમ કંદી શાયજ નહીં. મારા બાળકનો એથી જાન બચ્ચો છે, એ તો વાત ખાતરીની દે, મેપા મહિનામાં આશેર ત્રશ્ચ મહવાડાં આ સુધી અમારી પાસે એમાના ખારાક ાબલકુલ ન ઢોતા. અને તેથી મારા બાળકને પહેલાની પેઠે અરૂચી થવા લાચી. તેને આ ખોરાક કરીથી આપવા માંકથા અને આપવા માંક્યા પછી બે દિવસમાં તે પાછા પહેલાં હતી તેની સારી પછે.

હાલમાં હું એ ખેરાક એક પર વધતા દરદીને આપૂર્લ એ દરદી પહેલાં ઘણો જ મહિ હતા. અને મારી દ્વાકરવા માંડ્યા પહેલાંના પંરર દિવસ સુધી તેના પેઠમાં કાઈપથાં ખોરાક બિલ્દુબ રહી શકતો તહોતાં. આ ખોરાક મેં તેને આપવા માંડ્યા ત્યારથી તેને અર્ધીય તો ભજાતીજ નથી. અને એ દરદાને સારા ઘણાની મારી આશા ઘણે ભાગે આ એ સુરાક પુષ્રસ્ત્ર છે. એ પર્વે જેન છે તેથી ખાસના શુપ્ર એ લઈ શકે એમ છેજ તહિ. અને તેથી આવે પ્રસંગે મારા શસ્ત્ર तम बनावेश भाराड पर्य अभत्यनं शस्य थे.

મેં જે આ લખ્યું હે તેના તમારી મરજીમાં આવે તેવા તમે ઉપયોગ કરતો. એ લખ્યું કે તે એમ ભાષીને કે આ અભયની પમાંડે એરા ખારાક હિંદસ્યાનમાં પૂરી રીતે જહાયા નથા

(સદ્દી). આવે કબક્યાં કાનગઢામ ભેમાડી, ઘર્જન, કેટરદામ લેલી, મેરે તા. રેક મી એપ્રિલ મન ૧૮૭૮.

માશ ખેતાના શેષ્કરાં તથા જે નાના દરદીઓને મેં એ ખેરાક સેવાની ભૂલામથા કરી હતી તેમના ઉપર ભૈની શ્રી ધ્યક્ષર થઇ બે તે મેં તપાર્સા ભેંયું છે, અને તે ઉપરથી મંત્રે લખવાને ખુદી ઘાય છે કે માનું દૂધ જ્યાં મળી શેક નઢ તે વખતે આ તમે બનાવેલા ખારાક થયા ઉત્તમ છે તથા બીજા કૃષિય ખારાકાના કરતાં એ થયા ચૂઢી માતો છે એમ ઢું માતો છું.

ભરાખર સંભાળથી એ આપ્યા **હાય**છે તે તે હંમેશાં સહે છે. એમ મને જણાયું **છે અને તે**થી **જલદીથી મુજબૂત મોસમાં** वंधारे। थाय थे.

એ ગરમ પાચીમાં બરાબર મળી જાય છે તેથો બાળકને માટે ખારાક તૈયાર કરવાનું કામ ચક્રપ્રથી તથા સેંહેલથી લાયએ એંદુલુંજ નાંદે પરંતુ જે સાદ માંચી એ ખારાક બનાગેસાએ તેમાંના સ્કાર્ય સંદેલથી પચી શકે એવી ખાકના દુષ્પર્ધ આપણી મુડ્યો એને એ બતાવે છે. આપી બાળક જે પદાઈને પ્રયાવવાને પૂરેપુદ્દ સંશક્ત હોતું નથી તથા જેથી તેના શરીરને યુકસાન ચાય ધે તેને તે પદાયે પદ્માવવાના મહેનત એણી શર્ધ જાય છે.

જે બાળકોને તેની માલના ઉદ્યેરવાનાં હોય તેમને આ પોરાક આપવાની કું મળબૂત ભક્ષમણ કર્શું. અને મારી ખાત છે દુ કે જે આરાકના ગુણ ધીમે ધીમે જણાવા હાગ્યા છે તેના ખપ ખતે હશે. વર્ષો પદદે અને એમ ઘવું મારા વિશ્વાર મમાણે દુકળી છે. હેન્દ્રદેતિ સંદેત હીલીઆ કે એસ. હી.

હિંદુસ્થાનમાંના આડતીઆ—ો પ્ય એન્ડ કમ્પની લીખિડેક દ્વેશ એન્ક કમ્પની, બેલ્ડન એન્ક કમ્પની, હાજી કેસ્નાયલ ક્લક હિંદુ અર્ધા સમસુધીન શરા આવી હીબતુલા પી. ક્લિપ્સ એન્ક કમ્પની, જેરેપીઓ લાયન એન્ક કમ્પની ડી. શેલોઓ એન્ડ કમ્પની, એ બી. સમસુધીન શુલામ અલી જીવજી એન્ક કમ્પની, લાલ્ડર નંદર એન્ડ કમ્પની, હીરજી એન્ડ કમ્પની, અલા સમાન પી. એને કેરાવાલા એન્ક કમ્પની, ધુલાઈ બાયરેટ એન્ડ ક્રમ્પની ક્લારેટ એન્ડ કમ્પની, કાલોનો સ્ત્રી, કરાચી, સિંધ; જે મેઠલંડ એન્ડ કમ્પની, કોલોમ્પો, સ્ત્રિલાન; જે એલ્સ. એન્ડ કમ્પની, કલામાં, સ્ત્રિલાન; જે એલ્સોર એન્ડ કમ્પની, કલામાં, સ્ત્રિલાન; જે

કિંમત ઇંગ્લંડમાં બાઠલી દીઠ ૧ શી. દુપે. અને ૨ શી. દુ. પે. ખનાવનાર માત્ર

છઃ મેલોન માર્લબરોવકર્સ સ્ટકર્ડ સ્ટ્રીટ, પેકહાંમ લંડન એસ. ઈ.

ત્રે<mark>લીવનો લેક</mark>ટો ગ્<mark>લીકોસી અથવા દૂધનો ખોરાક, ૨ શાં. અને ૩ શી. ભાટલી ઊઠ. મેલીવના બનાવેશા ખારાકના જેવાજ એ બનાવવામાં ચાપ્યું લાજું ગાયતું દૂધ એમાં લેગે_{શે} છે.</mark>

MARATHI.

तान्हींमुळें व अदाक्तलोक यांकरितां

मेलिनचें फूड (अन).

हें पाणी पालून कमकस केलेत्या गायीच्या दुधात जालीं अनुपानात सामितत्याप्रमाणे मिकविल असता आहिच्या दुधाएवजी मुलास कारच उपयोगी पडतें. हें मुलास व अद्यास कारच अपयोगी पडतें. हें मुलास व अद्यास कारच अपयोगी पडतें. विकल्प (वेपकीय) अधिकाऱ्यांनी द्याची शिक्सारस केली आहे.



उष्ण दिंश सर्द हरेंत न विषडणारें थसें हेंच कापतें एक फूड (अझ) आहे. हें अझ वाण्यांत विरषळणारें धान्याचें सच्च आहे व तें अगरीं कोरडें होईपर्यंत सुक्रविलेलें आहे. स्रांत बीवअंतु चा लेशही नाहीं

मुले व भशक्त यनुष्ये वांना येकिनचे पृष्ठ (भन्न) उत्तम कशावकन तरः-

१ — नैमिन में फूड (अल), यांत प्रारास पोषक व पौष्टिक मी जी हामें लागतात ती वर्ष भारत व है दुवांत विश्वक्रित समके भारती दुवेदुव आर्थण्या दुवाप्रमाण बनते.

२. - नेतिनचें फूड (अल), यांत वे पदार्थ आहेत ते अशा रीतीने पातलेले असतात की न्यामुके पकदन सरीरीतीन रकश्यक्तात विजनतात.

३---नेशिनचें फूड (अल), हें (कायन शाकाच्या नियमांअन्येय व विषयभेतत्त्वानुरोधानें अगरी वरोवर नवार केने आहे

४.-- नेतिनचे बूड (अस), हैं ।पेष्टमय नमून शांत स्टार्च नेहिं।

५-- वेलिनचे पूर (अज), यांत सावार नसते.

६.-मेलिनचें फूड (अल), हैं अवाचे कवे कव चेंचून ओवड्योवड रीतीनें तथार केलेंलें नाही.

 - नेतिनचें पूँड (अल), हे लागूचे बंबतें व गयांची कपीक गांतामून लिखियाच्या रीतीने अगरी कालोकरीत्या व कालकेंदूचेंद गगर केलेले आहे.

4.—नेतिमचें फूड (अल.), हें विरचकणारें असल्यामुकें यांत एखादा व पचण्याज्ञांना (अपाचक) पदार्थ दिश टरकोंते अगर मुख ही मुकींच नाहींत.

मेलिनच्या अलानधे में विश्वमय परार्थ भारेत त्यांदर स्वाभादिक पचनकार्ण क्या क्या किया पदतात त्या वर्ष त्यांदर कृतीय यहदव में तृत्रभ रीत्या पचन हेल्यामारी केले आहेत.

१०--मिलमचे चूड (अन्न), प्रांत दुवामारंत, अशक्त, तथेच बश्चकट व सत्तक क्षेत्रांच्या उपयोगावरितां अनुपानांत क्षांपितन्यापकार्य केरवदन करितां येती:

११--नितनचे हुउ (अम.) यात बारांच असस्यामुळ अशक लोकांच्या कीडवाचा आम्मपना व अर्वाचीव मोडतो.

९२ -- नेनिमर्चे पूड (अन), हे साच्या मुताबी व अशनः मनुष्यांची गाईवें दूव प्रचरिन्यांची साक्त वाहावेते.

१३.-वेलिनचे कुछ (अस), हे आईचे दूध र पातील गुण शहायते.

१४.--मिलनमें पूछ (अस), है बून आहेचे अंतारा वांत असते तरी त्यात देखात इरकत नाही; व त्यावृत्ते कुताव आहेचे अंतार कुतन्त्राचे बंद वाले कुतार पढीत.

मेलिनच्या अन्नाचे अनुपानः

१. तीन ग्रहिन्याच्या भांतील तान्या लेकरांकरितां व भशक्त मुलाकरितां.

- सहान पुलात दुश पाजण्याची जी बाइली भिक्कते तिरुवा अर्थे दृश्ये सुमारे पावहेर वाणा स्पाद, स्यांतून ६ टेबल स्पूत कुछ छणके र चम्प्येयर वाणी एका कार्यक्षा बाटीत व्यक्ति.
 - रे. आणि त्यांत मेहिनचे अब टीन चयचे छाहन त्यांस मंद्र आंच देशन आणि डवळन ते विर्धनवाँचे.

 है विरायक्रोके स्थित पात्र पात्र वाहकीत भोतावें भागि न्यावरोवार पावशेरातके राहिलेके पाणीर पात्रावें भागि वेतर त्वा रीहीच्या वरोवर गाईवें तांत्र ट्रम पाकत बाहकी भरावी आणि ते सार्वे पुतः चुनीवर जरूर असेत तिनके गरम करावें.

२ श्रीज प्रशिक्षांवरील प्रलांकरियां.

- नैतिन्यें अत्र चार चमचेभर छेडम ते ६६ चमचे पाण्यामध्ये वर सामितस्थाममाणे दिश्यक्षविः.
- दे. नंतर त्यांत पात्रण्याची बाटली अरेपर्यंत नार्टेचे हात्रे दश घालन ते सर्व त्रितके पाठिक असेल तितके गरम कराहै.

भावांना ग्रहस्थास्या सस्त्रना.

१ अन्न पेण्याचे परिमाण — अनुपानत सांगितके ने भित्रण्या अनाचे व्याण पाकण्याची बाटती भरे इनके होईन. आणि है इनके की चार पारिणाय्या ताथ्या स्वाम एकावेके वस होईन. तिरके सगके बह कास न होईन वर के विकास एकावेके शहून याई काला हुन होईन काला हुन काला के सांहित के विकास ने विकास काला हुन पारिके के सांहित के के सांह

२. ड्यानियासी.—अन तथार करतांत्रा से दृष व्यावयां ते जिन्दें या त्रिजे तिर्देख गत्य-करारी, ज्यास्त नायने नये. कारण सर ते कद्वकते तर ते कारित व्यावकत होते प्रणीत त्याची कलातां वेवायां के लाति व्यावकत होते प्रणीत त्याची कलातां वेवायां करतां त्याचित कर विकास करतां त्याचित कर्याचित कर्याचित कर्याच्याचित कर्याच कर्याच्याचित कर्याच कर्याच कर्याच्याच कर्याच कर कर्याच कर्याच कर्याच कर्याच कर्याच कर्याच कर्याच कर कर कर्याच कर कर्याच कर्याच कर

अ. राजन्याची बाटली व नहीं दिशेष चिकित्सापुरेक स्वच्छ देवली पाष्ट्रेके. प्रत्येक बेहेल ती नकार्ये लाफ पुष्प काहादी व्यापि पुना क्यांगित कारण पुना क्यांगित.

६. अन भागन नमेल तर हा रांच दुधान ये आहे की विधनाच्या कृषीत आहे की अन्य रेन्याच्या राजीत आहे की काय है दाईमें किया आहे की विकार करून ताहरे पाहिले अन्य एकटम अरल दिन अरेल किया पाड़ा आहे की पाहिली प

वधम भोगा वैज्ञानंतर युनास वरेच पातक उरासक्रदेश सामें तर पावकंत्रपे कारण ती कोई हगवणवर्षे. मुलांब काहिंडे पातकच परवा-कर्दन सामें पाहिके स्वनत्र हैं अब मुलास दिग्यावर भोडकमाच दिवशांत मुर्वीच्या रंगकपात पेते.

कारी बंबों हैं येथे लागस्पानंतर मुलाय्या परसाकदेश यान पेथे लागत. जेथे अवेश्य पदार्थ व्यवसाल दिले कातान लेथे अहै तंपन आहे कारण में अन न पण्न कीटवान तर्सेच बढ़तें है कुजने आनि या अनावरीवार बारेर देने, पांतु अली गोह कोही दिवस बतन वर होन लाहिन तर मान अन नवार करनेवेंबी दुसाहरची साथ काहून टाकांगे आनि वाली श्यासन धानारें.

अब जिनके बाट निर्में क्यारन पोष्क क्षश्ची भी कामान्य समझन आहे ती क्षात्रीमृतक आहे. आहें वृक्ष क्षमदी पानळ वण ते नि-रोमी अतमें नर कारण वैश्विक आहे. जिनके अब ज द निगळे वर्षाक्रवान कठिल समुन पोषक्षी कमीच विजनवा का क्यांत प्रवर्ध कृषी आहे की ने विरयकने असनो आहेरया द्वापमाने कार पानळ व कार पोषक असे अब नयार क्षेत्रें

भा जारी लोकांकारतां व अंगावर पाजनाऱ्या दाया व आया वांकारतां सूचना.

६. हुमरि कर वस्केनर समझे एक देवलसूत्र बुल किया चौडते ज्यारत भेतिनके अब कार वसके कम प्रत्यात विरयुक्तकरे.

१ नेतर वावकी किया धोडेते ज्यातम निर्मित्य स्थान पिळवाँच. इत है अब उपस्क देखा दिश्लांनन प्याचे अध्या आवस्त्रास वर्षे कोडेल नित्तवया देखां प्याचि. एन्दवीयेखां जेतिनचें अब देश अवनाना दूप कार प्याने, वर्गन में न यानवर्षे किया न्यायावून कारट काल खाला तर दूध विश्वणीत अगरीय थोडे यात्रांव किया दूध अगरी व पानता निवस राज्यांचें मध्याचें विश्वण कराये.

निमिनमें मण हैं भंगावर पामणान्या बावकान कार बचनोता प्रदेश आणि कुक्तर्रेकाक्ष्म उकारवानी नेहमीचें अब हैंदे सिसके बावका पानी नवीच विनेत्र कारोतों आहे. हैं वरिंग पेततें असता आंध दश प्रवास्त बावपुर व प्रवास वेंद्री.

TELUGU.

మెరి౯దొరచేత ఏర్పరచపడిన శిశువులగురించి

ಮರಿಅಕಕುಲಕುಸುಹಿಪಮಾಗಮಯನಆಚ್ರಯು.

భురుగు చౌర మొదలెనకాటినుంచి విడవలచేసి ఇక్క గా నెండించి జలుబు 🛚 గణ్యంలో ఘారిచేతవికోధించసిర్గాన్య సత్వమ ಆಶ್ರವಾಲ್ ಬಲ್ಫಡಸ್ ಕರಿಸಿಂವಿನ ಆ ಭೀರತ್ತೆ ಮಾತ್ರವೆ.



తనిపాలకు ఉచీశవయిన (పత్యా MARK, మాఎయవని మరి అశ కిరోగిమలకును మేలెనకని ఘన్నెద్వార్తి కారులవలన

మెబ్లిక్ ఆహారము శిశువులకు మరి ఆశకులకు ఉచిరమైనది ఆనగా:___

- ణి మెల్లిస్ ఆహారమం, పాలలో కరిగి (పక్కరికి సాంగమ్యాయండి కోరిన ఆన్మ ఛారకసారము కలమైనది.
- మెల్లిక్ ఆహారము, త్వరీతములో నె వంట్లా రక్షాబాబును వృద్ధిపోందించే తత్వముకాలది.
- 3 పెర్టిక్లహారమం, అందిశేసాన బదాధశా శేశ్వవివచక శాబ్రంబంధిసైన మాలహాత్రములయందున్ను మరీ ఆవుషధశాడ్డ్రహుత్రములయందు చెప్పబడిన్గామమతో ఉద్య గ్రామనది.
- ర పెల్లెడ్ ఆహారము, మాకలు లేనిట్ బొత్తిగా గండి కేటెనది.
- 🗶 🖪 రైక్ ఆహారమం, గుమాధర్వము వినహా పేనే శర్మారాది తీవ్రలుగలదికాడు.
- మెల్టెస్ ఆహారమం, పచ్చిఆన్నప గెంజలను రుద్ది ఆపక్యమాగా నెండినదీకాడు.
- పాల్ట్ ఆహారమం, మహాజాగ్రతతో శాహ్హిక్స్మాన ఆ ఏగా? ఇద్దంపి ఆడు ఇరించి మంచి శాల్సగా ర్థమంల Load 324 a.
- జా మొల్లిస్ అహారము, పాట్టుకరిస్తి ఆజీర్మకర్హూని నాక భా గైనా కరినే అహారము.
- 💌 మెల్లివ్ ఆహారము, భాగ్యమలకు కినిశో గంజియొక్క పరివర్షకు మలు రేనినిగా చేయలడి వయస్సుగలవారికి యుం 🐮 ಭರ್ಮಾಡುನ ಆಸ್ತ್ರವಾದಕ ನಿಯಮಮುಲನು ಕೆಲಗಳು ನಲಗುನ ಅನುಕರಿಂದಬಡಿಸಿತ್ತು.
- గం పుర్వై ఆహారము, విడిగలబారు తాభారోగిముల కోరికల చూపున ఉన్ను క్రమీనది.
- ಗೂ ಶಾರ್ವಿಆರ್ಚರನ್ನು,(ಆಲ್ಬರ್ ೩) ತಾರಕರ ಶಾಸ್ತ್ರದ ಆಕಟ್ಟಲಕು ಕರಿಸೆಆರೆರ್ಗ ಪುರಿನೆಲ್ಲಲ್ಲ ಬರ್ಗವ ಈ ಸಹಾನು ಅಣವ ತನಿಸಡಿ
- ეకి మనిక ఆహార్థ్ తెల్లియొక్క పాలు మక్కిని కర్గి యోగ్వత్తను ఆభివృద్ధి చేయనిగినని.
- ఎక మెగ్రైలహారము, ఏక కాలమండు రెబ్లి పాలులో తాగంది రెండో మాడు ఆనాయాసముగా రెగ్డికా ಲುನು ರಿಡಿಪಿಂಪ್ಗಳರು.

మెల్లిక్ ఆహారము వినియోగమును గురించి వు గ్రర్భం

- ్ మాడు మాగ్రముల లోపైన యీడుగల మరీ సునుమార భాలులకు:--n ఒక పాత్రనీరు సిఖ్మకాలచి కాంట్లానుంచి ఒక ఒర్గనరి టడు(జేవిల్ నూ,కె)సిట్టేవకలాగితిలో ప్రాక్షణం
 - శాంట్రాలరగరెక్టుడు (ప్రేశ చెప్పిన) ఆహారముకలిపి మందార్స్ మీద కొనిలించునూ కర్యించేది.
 - కి తరువాత పాత్రనేరు తాకా అవ్రసాలు మరి ఆతక్కివస్వులోకూడి ఏక్రడునేసి పక్కడుగా కానేడి. మాడు మానముల పెనయుండే యీడుగల చంటిలాండ్లను గురించి: --
 - కాల్లగరి మెలనీళ్ళు కొలచి జాంట్లానక గరి మెడానానమ పైన సెప్పిన క్రామమంలో కంగం చేడి.
 - జాంట్లా సమాధ ఆధరా నేరు [పైంట్] పబ్బిఆవ్రపాలుపోసిపక్కముగా కావేది.
 - ఆహాక చరిమాగామలతుందు రెబ్డులకు కెలివియుండుట ఆవశ్వకమీమనగా:--
 - n என்சம்வாளன்கே இரஞ்சன்மேக்கு இந்த விறும் வேய்க்க கண்க கூறுக்க (முத

ాటులకు పాటుకాగించి) జుడ్డీ నిండి మూడు ఆథకా వాలుగు మాసములయాడుగలు చెంటికాండ్లకు కృ<u>క</u>్తిపాందించిన ట్రారాజును. ఆజుడ్డి గాటికిడ్స్ ఓకేంచినే కడువనించా చీకి బుడ్డిపడిచినినేరు. ఆప్పట్లా యింకా చీకమని బలక్కారమ చోడుక పునినిన ఆహురము రెండాలాటకు ప్రసిశ్ వినియోగానికి రాడు, శాబట్టి పారవొత్యవనేను. ఖావీగానుంజోచాలలు డైచంటికాండ్లనాటికి యొడ్పటికిని యివ్వరాడు యొంతుకంటే జానిద్వారా ఘావీ ఊదితోగాడి కడుప్పటాకి ఇళ్లి విజ్ఞ శాయల(చక్పతికి మిక్కిల్ విరోధము చేసును.

ా . ఎనియోగమయ్యా పాలగురించి:...ఆహారక్షులో కివిమీ పాలుగు మీతముకంటే యొక్కవే పేడి చోయకాకూడి. మీక్కినీ కానితో ఆజీర్నాంశమున పెందును గనక కాగ్రతపడి దురాంశములను పొందనన్నక నవీపిన్నగా నుండనకను. ఇ్యాహం కాంతమంలో పాలభాండన సీతలమైన స్థలమండు యుంచవరేను దురాలాటి బోటునేక హోరే నక నిటికోడు వార ట్రావకము (వేకారమానేమనోటాడు) పన్నిమాలలో కనిపి సీన్లవిండిన పెద్దాగినే ఆధవా పెదల్కుగల భాండవడా పాలభాండవను ఖంచిని. వాకపేశ పాలు ఎక్కాగానుంటే కేక చంటివాండ్లయుండు ఆజీవ్య కారుకల్పడు కనపరివయండే పాలభాండవను మందర భాగంశీస్త్రిపాయ్యనే నమ చంటివాండ్ల సహకముగా ఆహానమ నీకుడు భాగేకింట్లు కోసితింది అంతమే పాలమేను మరి భాగంశీస్త్రిపాయిన అప్పము. ఆప్పము చిటికోను మొర్దానకము ప్రవహింబండితో కేసీ కాకేసి ఆశ్ర పాలు పాళారణముగా పారిశ్యమంతు యొవకిక సంగ్రహమయునపాలను వినియోగినమచ్చుగుండిను. ఆప్పము జా చికక పంగ్రమయునపాలు ఆనికార్యమయునప్పుడు రీపికలపక ఖసిభవించిన పాలునపయోగించనకేను.

ు ఆహారసుమాధాను కై. మీడే లేక్ బా తైగా చెర్తారిన ఆహారమును శీశువులు తాగరు తాగినా అాభాకరమయి నిడికాడు గనుక్ యివ్వగూడకు యిందు కైత్తులయినలారు జాగ్రతిపడి ఆహారము పేడిగానుండి నోటికి సంలోషకరమైయు న్నప్పడు తాగించితే సమధామనుడును, వాక్తార ఆలసటచేత తాత్కారమై అహారము పేడిలేక్ చెల్లారినప్పుడు తిరిగేనా న్నే పాలుచీశోజుడ్డినా తోక్ పోరే తిగిన భాండవలో పోసీ పేడిగానందె స్క్రీలో కోన్నినముచాలు (మినట్లు) భంచి పెట్టె నప్పడు తాగించవలేను, తాల్లిసమయుందు శిశువ్వలను తాగించడము ఆగత్యమైయుంటే కావలసినంతకొత్తగాస్త్రీ చరచి వివియోగించవలను కాని ఎప్పశేఖమీద నుంచగూడదు.

ర పాట లాపేటడ్డి రైగారా లడ్యమతో స్వర్నమగా నుంచడడునగా:— ఆహారముతాగికిందిన ఓడుట బుడై మరి తోటీలు (ట్యూట) స్వన్సమగాను కడిగి రిరిగి వినియోగానికి రిసుకు నెవరకు ఏటలో ముతించిత్తంచనేశ్రమ. ఇండు

ఈగాను వకలోదుబడ్డనువుంచితే వకటిమార్చివకటిని వినియోగము చేయకూడును.

ఒ నకర్రాట మిళమారిక ఆహారము రాలా తాపిందినందున్ నిర్యేస్ బ్యాకలు విడిపై ఆహేక మార్లు తాపించినందున ఆథనా పాలు తాపించే బడ్డీ వైగ్రా సామాను 'న్వ్యమహా క్రియంతి ఏ హేతున్నేతను, పాలబోడమునలన తేక ఆహారము ప్రేష్టరని తాపించే విధులయందు ఎల్కై కిశుశ్రంకు ఆ మారమునాంటక పోనవము కాబాలని తయ్దుకు తెరిస్త్రి యుండవెక్టుం, ఆహారము సిద్ధపరచభముకకు మరి పాలుతాపిం చె ఒడ్డీ వైగ్రా స్వేష్ణము చేయడానకుగాను యింటి నట్రకర్లను సమ్మయుండి బాడుక మిక్కితి ఆవహిత్కరోత్యకరి,మరి

ಯುಂಡುಕ ಮೈಡಿ ಕೆಹ್ನಲು ಎಟ್ಟರಿಂಪಿ ಮಿಸ್ಟ್ರಿನಿ ಘಡುಲಾಪ್ ವಿ ಪಾಹುವ ಕ್ರಾಪಿಂಡನ್ನು

ఆర్యమంలో కొన్నప్రాటలు ఆహారము కాకించాగా శివ్వలు చేస్తురు.అన్నదు కినిపిందిక్ని ఆరిస్తారి. ఈమేకోఏ శీలోశ్వన్నమ్మమ్ చేస్తుకోగూడను. యొందుకంటే శివవులు పలాచాగా యొంగేదీకన్ను ఉది రెండు మూడు దీన ముంలో ఆర్వానమై తనకు కొడ్డే కట్టుకొనగలను.

కొన్న నడుతుతులలో శిశుభులకు తగని ఆవశరము నడిపించినందన వర్నము కాక తర్లామంశము కేంటీలలో తోట్టు కొని యొంగేశుప్పుడు ఆస్థార్గరెస్ట్ నుండి వాస్త్ర్ యొర్తురుందుడు. ఈలాగుండినప్పుడు కాగ్రతపడి పాలపై కేతు కుత్పదిశ్చనిమీగదలాగమురిశివిస్తి ఆహారములోశలపనేతను.

ఆనంగము టిక్టాగామంతి తాపించినే పొట్టికమని యనుకునే భారము తాత్తిగా పారభామైనది. గ్రే క్రితియు నత్సాలపాలు పలాచగానున్నప్పటికి శివధలకు టెక్టని ఆనంగమైయుండును దన్నవాలు చిక్కాగానుంటే తొగ్నేరక ఆన్హభార్కము శాసేరమ. పెన్ని ఇజనారముడు మధ్యమైన లాభో మేమంటే పొండలో కరిగింతినే ధృష్టీకోయేయున్నతో ೧ ವರ್ಗರಿ ೬ ಕ್ರಾಪ್ತವ ಕಾಲಕ ಸಂತಿನ ಯಾವಕರಮ ವರ್ಷಕಿ ಬಿಡುವಿಕ್ಬಲ್ ಕರಿಸಿಂಪೆಕ್ಸಿ

్తి తర్వాకరారినట్టు పర్పీఆవ్రపాలుపోస్టీ వర్గొన్ని (కర్) నిండా (చరిదేనములా కాఎల్సీనప్పుకో నా చరి ఆడికమార్లు తాగుతుండెది. వెట్టిపాలుతాగెడానికంలో పెల్లింజరరము కరిపిరాగితే రెటించిపాలుపాడకమ మ్యోది మైజయం. కానీ యూలాగున తాగుతుండనా వరసమయుముందు పోంటపడికనుండును. యప్పడు పాలతా తేక మాచకరములోనట్టిపోస్ట్ కరిగించిరాగవరేను.

ెబంపుతేల్లులు ముఖ్యమంగాలన్నము. లివజాలక యాన్నప్పుడు మెబ్లిక్ లహుహారమును <u>బెలామ్మగాహామంగాం</u> స్వీ "కెంది కంపూ రైగా తాగితే వారిగుబ్బలయుండు యాభేషమైన పాలుపుట్టి ప్రస్తికరమైయుండును.

→ 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000

கோ xg சு எ கு கை வ.

హెక్టర్ ఈ స్టేష్. స్టీత కినిమూ టు హీ మె ది కేంగ ఆఫ్ కెల్లియన్ కారీన్య యున్నాకిండిన

ะหู้ผู้ใย, ระส^ะฮะช⊼⊮ูร ∩ 8 ๖ กร เจ

ప్రాజ్య పరిచయమున్న పాటికంటను మీదనిచ్చరచిన శిశ్వల యాహారము మిక్కిలి ఉదిశమయినదీ.ఆ కోర్యులు ఆధకా రోగెడ్డికు[రలుండినా సమానస్థారమునేయురిగినది. మరి చెంటికు[రలు వానివెంన బాగారేజీంచబడుడు కేషినమైతించగలంటలకు కనచరచినది. ఈలాటి (శిశువలమరిజీంచగల) నియమములు సీడేర్నె యాచారపిషయము కు యొంకిస్తారమచరికినా న్యూనమైయుందును. గాన బ్రాహాకి ఎక్రియాడులు యావరకుమిక్కిలిగొట్టగా ఆరింది ముందుననినము, కాను.

ఖుద్దనహి ఈసైన, ప్రేత-

ఖాక్టానర ఎం. డి. ఆబ్ద్రైటిక్ ఫిసిడక్ టు ది ఫారింగతక్ జనరక్ డికెఎన్నరీన∑ారా గొక్క మైకృశ మంట గలరారినుంది. యున్నబడిన.

ಅಕ್ಷೇತ್ರಚರ್ಕ್ ೧೧೨ ಸಾಂಗಡಿಸಿ ಕ್ಯಾನ್ ವಿಸ. ಈ ೧೬ ಜಿಸಿವರಿ ೧೮೬೯

శిశువులగురించి ఇతరులు చేసిన యాహారములోను మీరునీట్రపరచినాకున్ని సరికొట్టి న్యాయామాగా పరిశు డోకట్ల గాను మరితినివ రెళ్ళులయంగు శ్వీమమలో వారోగ్యకరమయిన యేర్పాటును పుట్టించే హెడ్డిక (భవ్యమగల యా కశకము శెంచోడి తెరని భార్మచారములో నిక్స్యించినాను. కాబట్టి ఆన్యవిధి యూహారమునకు యుడి విశేషతులుంది కథి సౌక్యాప్తటికి శ్ఞారమచేస్వను.

ఖుద్దునహి - జాకటానరం

ామ్స్టర్ బర్కాని, జంగ్. ఎం.డి. ఎన. ఆర్ స్పీను. స్టాే క్షర ఆఫ్ క్లైనకర్స్ట్ యూన్వర్సిటీకారేజ హాస్టింగాల్. సరజయక్ టు యూన్వర్సిటీ కారేజిహిస్టిటాల్, *** కింపార్ స్ట్రీట్ గ్రా డిశంబర్ గ్రాలం

ఆర్మాధిఫీఆహారమం. విమరగలో యొక్కుడి పదనము చేసుకునే శైక్రిక్ యుండె (వస్తీ) ప్రీజలకు ఆధోకసార్లు లకు తిందిన(యూహాక)సారమును చెల్లింది ప్రాణమనురాయించే సామస్థ్యడ నైలిని మీరు దించిన బ్రాహకమాతోను శిడ్డ క్రెడ్ యూహాకరము ఓర్పరేనివారికి గవించికోడిని దృష్టారము సోసెక్కడి కానరేమ మరిశవుక్రంను మొక్కటికినిపో ఆడె మరి పదనమయ్యే యూహారమాత్రమని నిజపురచబడినది.

మీరు యేర్పర్లని శిశుఖల యాహారము బహాశా జనరూఢికి మరి ప్రావ్యమతానికి (నమ్మతమయుకువని) ఇక్కిడ్ల ఇకు ఆహాశమ్మకుమాను విశాఖనాహకుమను పాందగలందు. శైయక్షుముదుకనిమారులో మైన్నది.

ఖర్జనహి ఎర్టర్కింత్ ఎఫ్ ఆర్ సీ ఎస్ ఆ న త్ (ప రె.

తికయాపురం ణం ఫెబరవరీ గారం మేసర్వకొంద ఆండ్కందన్ యొదుత్నుయిన్ యిండియా కారీకి.... ఆయాక్ట్ర పూర్వం మీరు పండించిన మాచిరియే కొండుడజన్ మెబ్లిక్ యాహారము(బుడ్డి) ఈ దయిచేసే పండించేశాఫ్ కానక్ కందనీ ఆమరాభావయని పయిపిలాసముగ్రాస్పే.

తుయాహారడు భువమాగా గౌరవమయిన చెక్కాక నావిడ్డ్ సాగమను రడీందినడని గోను సర్వేమాగా సలుకుడున్నా.. గౌరందిన 'నెలలో మమారు మాడు కారమలు (సవరు) యాహారము నావడ్డ లేకుండినభుడు కావిడ్డర్స్వార్వవ ఆటర్న ఓగాములలో ఆవ్యప్తపడినది పువకా యాహారము జారికి కొండుదినభులు సేవించినంతలో ఆది యేప్పటినకి సే గాగామను. (బ్రాంకాలు కెగ్ల సంబర్బిందుల, ప్రాయాముగి కొక్కలభాయాలానిం వార్పు లోయుంజనాడిం ఈ మరి కేను మందు నడిపించేడికం పదికానుదనములు కడుపున్నారు కాల్నారముతోక యుండిన జానికియిన్న న్నామ కేనిప్ప నూపించి మొదలుకెట్టికపుటినుంచి బాందులను ఆజేర్మలమూమలు కనిపించడముతోను. మరియుడి ముఖ్యమైన - రోగవరియని నమ్మనాను, యామనిని మైకమల్యోచియినలను మాంసముకేస్ కాలివరాడు (మొవలయుక్తు) తాపించడమున్న కాబట్టి యూలకటి (స్థానిగమలకట్యంలో పయుక్తమానుంచేడు యూయావారకు కాయు కెట్టి కొలయుందు సంయోగించి యుండికినిని.

ఈ అద్భరేమైన యూహానము కాండూస్టానములో హైర్లీగా రెరిసియుండి రేదనే నమ్మకములోను నేనుక్షామికి

మాటలను మీడ్నేజుయినట్టు మీరుకుపయోగముచేయిగలరు. ానుమీకుప్యాంసకుడను

ఖుద్రవర్గీ ఆరో డబ్ల్యూ కనింగహం ఎం.డి సర్జియక్ల

మీమెక్క్ బాలాహారము నాస్వంశపిల్లకాయలకై డిపయోగమ్ చేశిమరి నాసముత్రప్రకారము కాగించి వారియుండు కాగినుగాముమ కనిపెట్టి పరీశిరించగా ఆది తిల్లిస్తాలు దారకనప్పడు డిచితమలున్నపత్రాన్నుయమని ఉరిపేతకరృత యూహారములకంటే (శేషమయినదని మీన తెలియచేయగల గాప్పనంతోమమను పొందినాను.

ా(గరలో (యాహురము) చెల్లిందినపు జెల్లా సరిపడి త్వరగా బార్డ్యము మరియాలోగ్య సంబంధమయుక కాతా

ಕ್ರಮ ಶಾಂದಿಂದಗಳ ಕಾರಣಮನುವಹಿಂದಿನದಿ.

పేడిపిర్బలో (పేస్తే) కా త్రాగా కరినిపోయి శిశుభుల యాహారము ఆలస్యమంతో సంభామంలో సిద్ధమం యోగ్రాజ్ రావిగంజితనము సాధారణముగా జీర్మకరమయిన చెక్కొరతీవునకు దూపాంతమై శిశుభలనుడిపశాంతినేయు గల శేక్తిని కనపరచుతుంది.

చేతుంటుడ పెంచబడే శిశువులందరి ఉపయోగమకోయి దీన్ని ఆలయాగా వీఫారసు చేస్తున్నాను, మరి నేనుసత్యేమ ఈ నంప్పేచేమంటే ప్రీరమాగా తనయోగ్యతేవలన మనోహరమయియుండి యూహారమాయేడికలలో యది ఈడకు విశా ఆమాగాపెంకృకాగండు.యిదిన్ని కాలాగున నేఆ గ్రమయినదని తలంచిఖాను.

ఖుద్దుహాహీ, సి, హీన్లియార్డ్, ఎం.డి.

ఇండియా లో వుండెపే శెంట్ల పేర్లు.

కేంద ఎండి కందనీ రిమ్మడు, టీడర్ఎండకందనీ, పోల్ట్ ఎండకందనీ, ఈజియమైయుత్ ఫజిత్ యొక్తున్నాడు. పినించినందని ఈజుమ్మడు, మండకందనీ, జరిమాయానిక్ ఏండకందనీ, డిగొలియా ఎండకందనీ, ఎండి రందనీ, జరిముద్దని మండకందనీ, మార్ట్ అన్ను మండకందనీ, మార్ట్ కల్లు మండకందనీ, మార్ట్ అన్ను మండకందనీ, మార్ట్ అన్ను మండకందనీ, మార్ట్ కల్లు మండకందనీ, మార్ట్ అన్ను మండకందనీ, మార్ట్ ఆన్ మండకందనీ, మార్ట్ అన్ను మండకందని, మార్ట్ అన్ను మండకందని, మార్ట మండకందని, మార్ట్ అన్ను మండకందని, మార్ట్ అన్న మండకందని, మార్ట మండకందని, మార్ట మండకందని, మార్ట మండకందని, మార్ట మండకందని, మా

ಬ್ಂಬಾಯ

ఇంగలాంనులో (చరిటర్డికి ఇక ౧ ఓరింగ- ఓ కెంగలు,మరి ఎఓ ఓ కేం, మారత్ ఇకోవర్మాడ. స్టాఫా ట్రామ్ మాంలండక ఎగ్రమా,లో చండే కే, మెల్లికోకుడగల యూవురముచేసేవాడు.

్ సుబుగానెప్పబడిన అనగరము "గ్రహరపుట్టుగాని పేరే లాక్ట్రాక్ట్రాక్ట్రాక్ట్రాక్ట్రాక్ట్రి ప్రధించని పాలతోడ్డిన పై సంకల్పుక్తున్నారు. ఎక్కు పలకులమ్మమమన్నది,



MASTER BRADLY.
(Aged 18 months.)

"259, Daiston Lane, Mare Street, "Hackney,

" January 13th, 1891.

DEAR SIR, I am proud to hand you a photo of one of my children. This boy was 18 months when this photo was taken and weighed 33 lb. He is very solid and muscular, and not flabby like most big children. Has been brought up on Mellin's Food, and has always been the picture of health.

"Yours truly, "W. E. BRADLY."

هددوستان میں گماشیے کمپ اینڈ کمپنی لیمؤڈٹ ٹربچرابنڈ کمپنی بریڈن اینڈ کمپنی سیائی اینڈ کمپنی سیاجی فیسی عاجی ابدڈ کمپنی سیاجی فیسی میں الدین سیادی فیسی الدین سیادی فیسی الدین سیادی فیسی الدین سیادی کمپنی مینئی سیائی گیٹ کمپنی سیادی کمپنی کمپنی سیائی کمپنی سیائی کمپنی کمپنی کولیم اینڈ کمپنی کولیم کمپنی کولیم کمپنی کاکٹر اور معدلی سیائی کمپنی کاکٹر اور معدلی سیائی کمپنی کمپنی کولیم

شلفگ بیشی شلفگ پیشی قبیت انگلنڈ میں می بوتل ۱۰۰۰ اور ۲۰۰۰ جابی بنادروال چی میلن میارلنورو ورکس ۱خافورد اعتربت بیگرام الدّن اس ای

ستان کے آپاکاوگاپکوس یا دودہ۔ کی خوراک ایک بوئل کو ۲ اور ۳ شانگ میلن کی بنائی ہوئی خوراک کے بنائے میں گائی کا خالص تازہ دودہ، ملایا ہی



MISS BARBER. (Aged 15 months.)

"96, BRIXTON HILL,
"LONDON,

"4th March.

Mrs. E. BARBER writes:

—"I beg to forward photo
of my little girl brought up
entirely on your 'Mellin's
Food.'"

هدست وميول اسڭريڪ تاريخ ١٧ ٥سيبر ١٨٧٠ ع

چندبار ۱۴ تفای یانثر کر اطفال صعیف الهضم را خوراک ساختگ شیا داده حفاظت جان اوشان لبودم ریهی چنان اتفاق نشده کر مرق موجه شیا گرفتر خورا کی ساختم و مویض موافق نیافتا ده باشه و این لُچربر بر تُبون رسیده کر خوراک مذکور جبت اطفال مقوی و منهضم است و میدانم کر خوراک معنومهٔ شیا نزد طبیبان و موام الناس شیرت خوایه یافت و کثری خوج و خریداران

برکلی هل ایف آر ایس

مسرس کیب و کیٹی گیاشنگ هندوستان

او دیپور ۱۲ فیبروری سلم ۱۸۷۲ م

ماحیان من-سعهرانی فرمود: از پان قسم کر سابق خوراک میان برای من فرستادّه بودند دیگر بیز دو درجن بوثل از پان قسم بنام من ارسال دارند برسرنامد و لسن و کیتی احیدآباد بتریشد

تومیف خوراک مطلوبر خارج از حد بیاست چراکه یقین میدارم که از پیس حوراک جان ایچهٔ من معفوظ ماند چنانیم در عای گدشته تا مدیقتر ازین حوراک لؤد عا بالکل بنوه ازین سبب بدستور مانق ایچهٔ من عملوب و در دروز باراسالت طلاعی رسیده عمل است می گردید چون باز ازین خوراک شروع کردم در فوصهٔ دو روز باراسالت طلاعی رسیده تندرست شدسالسال په ازین خوراک موسوبی و ایک سروه سالر میدارد میدیم و مریض مذکور بایت بیبار بود و برای عملایت تبار ازان تا عدت بابارد و روز تمیی از اضام حوراک اورا پضم بیبتد ازان روزیکم ازین خوراک شروع کابنیم مگایت سوء پضمی شده و صرا اعتباد کامل است که از پین خوراک اورا صحت کامل خوراک شروع بین مدکور از توم چن است لهدا شربائی گوشت بیپتواند خورد پسی در چینی حالت خوراک موجده شاه حرب برای صلاح خاند من

شہرت این خوراک مجیبہ درین روز وا در صلح حددوستان چنانکہ باید بشدہ است لہذا کیفیٹی کہ تجریر کردہ امر استعمال آن بوجب رای خود میٹوابید کرد

من محب صادق شیا

صحمح آر ڈنلیو کندگ ہام ایم ۔ڈک ۔۔سرجن کیائرہام والی سوری ۔ امریل ۲۴ سد ۱۸۷۰ع

خوراک شیا باغفال خود خورابیدم و مصلحت خورابیدن اغفال دیگراغزه و مریضان کر بیوده بودم بر تاثیرآن از نظر باریک بینی در خیال خود آورده بکال خوشبودی بوید خیرسایم کر اطفال را وقتیکر هیرعادر میسر بگردد خوراک مصنوعی شیا عبده ترین خوراکی است کر بیم البدل شیرمادر می تواند شد و من تحقیق می دایم کر از تیام حوراکان مصنوعی دیگران برتر است سفرطیکر از احتیاط داده شود البتر موافق طبایع می افتد و فوراً فربهی و توانائی می شخشد

حوراک هذا در آپ گرم بالکل مخلوط مي گردد چنانکه کار تياری خوراک باسايي انجام مي پايد ع<mark>لاوه</mark> رس از آودي کدخوراک مدکور ساخته شده است ۱۱ستارچ۱۰ يعنی اياردار اشياء دير يضم را به صورت شتم متيدل ساختم است تاماد§ دير يضم و مصرفون بديي را اطفال باسايي يضم مي توانند کرد

عل*ي القصوس ا* طفال نے مادر و ^{مح}ناج شیر مادر را نتاکید بلنج حکم استعبال ُخوراک شیا مي ديم و موا يقين کامل است کم از خوراکيکم بقع بلا مضرت بندرنج ظاير شود خرچ آن روز بروز افزويٽر خوايد شد و اغلب پست کم مطابق راي من بظهور رسد

گهاشتهای هددوستان ــ کیبب ایدة کوپنی ایمیند ــ ترسچر ایند کهدی ــ بولش ایدة کهینی ــ جاهی اسهاعیل فاضل ــ پوسف علی شهر الدین ــ شرف علی هیبت الله ــ بی طبیس ایدة کهینی ــ جیریهاولائین ایدة کهینی ـــ دی چهورتیا ایدة کهینی ــ ا ــ بی شهر الدین ــ عالم علی ایوان ایدة کهینی ـــ والگردشر ایدة کهینی ــ هیرچی صولیجی ایدة کهینی ــ جوسف عثمان ــ بی این کریوالا ایدة کهینی مهبلی ــ بیاته، گیت ایدة کهینی کلکتم ــ چه ایل لازمل الم آداد ــ ای استهای کراچی سده، ــ چه میت لیادة ایدة کهینی کولهیو سیلان ــ چه ایس ایهلور ایند کهینی کلکتم و مدشی

ههان مصارعی (داکلوگایکرس) را حوراک شیربرلی یک نهاند دولد در خطخت هر خوراک میش شیر کار حاضی کارد کاحتیف امت ۱ بیاید دانست کر اکثر بیماری اطفال و کم وعنی اطفال از عدای هغیرایی در سبب سوء تدبیری داید در بیت و پژ و نقص شدر و تا هفائی ^{دی}چه نیشهٔ شیر هوری و کمی و زیادتی هغدار هوراک و عفات در اودات غذای لازمه است حصومیًّا در آ^نجا که کار تیاری عدائی اطفال موتوی بدست بوگران بی بروا باشد

اُو<mark>گا چند روز از دادن خوراک میلی برا</mark>ر اطفال نرم و ملین میگردد و نیز براز ملین چیت اطفال معیر دربل صحت و تندوستی ایشاست بس باید کم از تلئین براز ایشان و یم اسهال بم فارند کم بعد از عوافقت پذیبت انشان نیستور معیولی خوارد شد

و اکثر جارا دیده شده کد بعد از خورانیدن خوراک میلن براز طفل نسختی میگراید و بد بو می گردد سنت کان سوء تدبیری و بامناست غذا پست کد غدای غیر منهم در امعاصحتین شده متعفن می گردد و قوت دانمر ازراه براز دفع می سارد پس علاج کان از سرشیر دینیت دور کرده کب از مقدار معبولی زیاده کرده در توام رقیق و تنک ساختن است

چون خيال اكثر مردمان اينست كد حوراك فليظالقوام مقوي مبيا شد فلط است چراكد شير مادر نغايت رفيق القوام و سريع الهضم است و غداي عابظا لقوام دير بضم است و قوت بم نبي نخشد و خوراك ميلن خاميني دارد كد نعداز حال و گذاز شدن در شير كاو يا در آب بهايت رقيق القوام و لطيف مثال شير مادر مي گردد

ع_بدایت جهت نعیفان و مادران شیردهـ

۱ _ یک چچچ، نزرگ یا زیاده ازآن خوراک میلن گرفته در یک چچچه نزرگ آب گرم مخلوط صاختان ۱ _ بعده یک پیاله ملبب شیر گاو دران آمیختم...اینقدر خوراک یا زیاده از این حسب خوایش و پشم در روزي چند بار ترانداد و نیز با خوراک میلن شیر رود تر پشم کامل می یابته بر سبت تنها خوردن و اگر به طبیعتی ببرجب پدایت مذکوره با موافق افقد پس باید که خوراک میان درلسی زیاده آب با به آب خالص بدر هم کیال پشتم و گذار کرده تخورانه

جهت زنان شیرده خوراک عیال صده ترین خوراک است برای افزودن شیر چنالکر بالا مدکورشد

سفار شنامحات

از طری ایوسٹس اسیبہ ۔۔۔ عشہور ۱۵ کٹر شاہ بیجان

هــجارج اسلويث بانوور اسكوير- تاريخ ١١٠٠ مي ١٨٧٠ع

خوراكيكر شيايراي اطفال ساخلةً كن از تبام حوراكان كد از آنياواتف ام بدوجد كبال افضل است واين خرراك مناسب طبايع اطفال و مريضان است علي العصوص جبت اطفال صغيرة خواة تندوست داشند خواة مريص زود بضم است وثقالت ندارد و در خوراكي كد اين يمّد مفات موجود باشند مستفني الأوساف است و موايقين كامل است كد درين روز باخوايش و خرچ اين زيادة است

ايومنس اممتهد ــ ديم ــ دي

فرنگٽن جنرل و حکیم حیراني شفاخانهٔ دایر گري و ماضي طبیب شفاخانه شاہي جنوبي لنڌن و Σپوڻي مهڌیکل آفسر قید خانهٔ پارس مانگرلین— از طرف جان ٹیانر— ایم — دی

العريدَ بوس ١١٨ نيونكنُن كازوي سوئهم ايست-١٦ جانيوري ١٩٦٩ م

ازخورا کهالیکد مورمان دیگربرای اطفال ساخگر آند خُورای مصفوعی شیارا مُفَاَیِّابلد کرد و ّشد نشفی کامِش شد که هوراک شیا در اندان اطفال زود قرطالت و ترانالی بیدا کند چنین خواص و تاثیرات توانالی بفش در خوراک موجوده شیارت که در خوراکهالی دیگران لیست لهذا من پییشم بر طوراکهالی دیگران ترجیح مهایم

از طرف جان ٿيانرـــايمــــدي

سمگربرکلي هل ایم دی ایف آر سي کلنټکل سرجري و مدرس یونیورسیگی کالیج پاسپٽل و سرچين پریورسیٽي کالیج پاسپٽل

المسآكابي براك مادران شيرده وخوراك سازان اطفال

سبچم قدرخور اک ناطفال می بوان دادست باید دانست که مقدار خوراک هرقومهٔ بدایت بالا جهت پرکردن یک شبشهٔ شبر خوری بس است و طفلان صد ماید تاجهار عاید را برای یک وقت کافی است و اگر این قدر خوراک در بکدسد غلب خوردن بخواند و فاصل ماند لازم است که آن پس ماندو را بیکار دانند و بار دیگر شکار بیارند چراکر بس ماندو را بار دیگر گرم کنند ندمتا و ترش میگردد و قابل عذائیت بهی ماند و بیزبایده است که غدای مرتب را در شبشه شیر خوری پر کرده طفل را برای میکندن بدید تا حسب عادت و موانیش مثل شیر مادر بیکد اگر قبل از تیام شدن غدا طفل بی رمینی بناید و سیری حاصل کردد شینهٔ عداره از طفل دور باید کرد و تجدر تباید حرواید جراکر خوراک ریاده از فیت صادق اطفال در معده ایشان قاسد شده عیرساند و باز شبشه حالی از غدا را باطفال مذیدن بدود کر برای خارجی بوساطت آن درمعده ایشان کامد

السطريدم استعمال شعر — ابن امو ضروربت كه شير براي مينا كردن خوراک اطفال است آنرا وياده از یک دوجوش بر آنی بگدارند كه از ربادتي جوش غلیظ و بدیل مي گردد—وتنیکه اطفال اجهت خوردن خوراک عرفی بند با در شیر خوردن خوراک عرفی باید این دلیل سیر شدن ایشاست و در موسم گرما بجاي سرد بهند یا در شیر نازه "باي کاربوت آن پواش" بندرايش « بدیان بر سابر و انهام گشتایش کند انداختم چند نابيم خرکت داده در شیشگ شیر خوري انداختم در طرف آب سرد عرف دارند و اگر شیر علیظ و تعین شده باقد و طفل پخم مینوانگرد دران وقت دیمیت شیر از سر شیر دروز کرده تحورانند و بعین اوقات طفلان با وجود خوردن غذاي مینوانگرد دران وقت درمیان پر خوراک بیدار بی مترش مجسوعی شود افرقت درمیان پر خوراک بیداره یو سیدار پک گفته نیازد و پی میرش مجسوعی شود افرقت درمیان پر خوراک بیداره یا سیدار پک گفته نیازد و پر بیدار بیدار نازه بهرسد شیر مجسعد که از ولایت مي آرند استعمال بیانه کرد اگر صوروراً بسبب بایابي شیر تازه خاجت افته آدونت ديربکه بي شکر نیاز کرده باشده استعمال نوان بود چرا که ریادني شکر طفافرا مصرت

حوراک اطفال را چه دد رگرم بایدان--حوراک خدای سرد باطفال نبایدداد ریراکه سند طبع بارک فیست و در مفید مزاج ایشان است پس میباید که قدا از خورا بیدن عقل عادر یا داید ددری اوان در چشد بعد وزان نطفل بخوراند و اگر به سبب ناگیر سرد نشرد شیشهٔ شیر حوری را در آب گرم چند دویقر گداشتر گرم کند تا بعرجه اعتدال رسد و اگر بوقت شب غدا دادن صورت اقعد آبوقت پرقدر کم صرورت باشد زمان قدر درست کند و قبل از کورانیدن بدرجه اعتدال گرم کرده باشد

عو بید تائی شدشهٔ شدر خورک را صافحه دارند بید پر وقت بعدار استعبال بروش انداخته مای شدت. باشند تاوقت خاجت دیگر در آب سرد باید گذاشت و اگر دو شیشه مهیا داشد، باشند بهتر است تاکه بویت. بر بورت استعبال کرده شود

۵ سنوم حسب خواس تعلي اطعال بیش و کم خوراک باید بااست بعمی اطفال تدرست ترانا و آوی الجمع میباشد و بعمی بریمی وباتوان و کم توت لهذا به اطغال را بریک مقدار خوراک بس کردن عبر میش است سعی میباشد و بعمی البرا و داید بای بعدی البرا و داید بای بعی البرا و داید بای شهره و لازم است لاحرم مادران و داید بای شهره و لازم است که بوسائی عفل و دابائی خود بعدی اشهائی اطغال عدا مهیا دارند و بخورائند میرده او لازم است که بوسائی عفل و دابائی خود بعدی است البرا این اطغال عدا مهیا دارند و بخورائند او بخورائند او لازم است بحدی در بعدار اوسط اشتها بدفعات داده بارساید و دیزبرائی اطغال عبر سد کور بقدر ششی یا بشت چیچهٔ بزرگ بعدار دو دوساعت کامی خواید بود و چون بزرگ سود بندری حسب عبر و اشتها به خوراک باید افزود چون آنشد خواراک برای واقعی خواید بود و چون برگ سد بندر آند در و استها میدر و کسوده گرده و میلی شدی و کسوده گرده و اگر خوراک معیولی طفل را قالت کرد انوقت به به باید حوراک باید و شیر طفل را بد تدر وادن الهی په وفیق و لفیف گرده و بیز سیار باید بخت تا کدار کامل یابد سدور که را کوراک بیش که گردتر کار یا به تدر وادن الهی په به وفیق و نظره کرد و بیز سیار باید به به نوان شهر وادن الهی په به وفیق و نظره کرد و بیز سیار باید بخت تا کدار کامل یابد سدور کوراک و اس و شیر طفل را بد تدر و ادن الهی په وفیق و نظره کرد و بیز سیار باید سی نوان شهر و این شهر و نیز سیار در بادت سی نوان شهر و نیز سیار در بادت سی نوان شهر و این شد و بیز سیار و بیز سیار در بادت سی نوان شهر و این شهر و این شهر و این شد.

هوراک تیار کرده میلی دراب طعال شیر حوار و مریصان اضعف النویل را بعید اعتبار . عمدگی میدارد

إسستوراك مصنوعي 3 اكثر ميلل اگر در شير نماو رئيق امتزاج دينه بعينه مثل شيرمادر <mark>حوراك مكيل</mark> مهكرده و در آلات فدا زود تراسخيالهُ كامل يافته نقويت و تنبيت مي بخشه زيرا كه استعداد قو**ن تنفه** و تنبهم درين غدا في البديم. موجود است

۱-ساجزاي خوراک ميان بورجُب قراعه و قوالين طبيه کيفتي خاص دارنه که بهجود وارد <mark>شدن بعده</mark> استّمالهٔ کامل يافتر و ^{مست}ميل بخون شده در عروق و مجاري ضيفر سيلان طبيعي مي نمايد و ددل ما بأهلا عي گرده

م منظوراک ميلن بيوجب قواعد عام کيبيا ٿي و قوانين درست علم موجودات ٽُرکيب يافقہ ودرست کودی۔ شدہ است

عبــخوراک میلن از آرد فام یا از 'اسگارچ' یعنی ایاریا نشاستَّه فام ترکیب بیافته بلکه از جویر فام ترکیب یافته و تیار کرده شده است

مسدر خوراك ميلن شكر نيشكر داخل ليست

ه سخورای میلن از حبوب فلد خام جریش یعنی بیبکونته بطور ناقص العلبی و عبلی ترکیب پذیر نگردیده سخورای میلن ببوجب قواهد اصول علم و غریقهٔ لیبک بکبال استدرای و پوشیاری از آزد جو و گنجم عبده ساخته شده است

هسخرراک میلن در آب گداز و مستعیل میکردد و بیز درین مبوس و جزء ثقیل املا نیست

٩ـــدر خوراک میلن از تعرفات طیبانه تنقیم و تعقیم جزء لزج یعنی ایار دارکرده به رچه لطافت چنان رسانیده که درابدان مبیان و اطعال صغیر و تعقاء اضعف لقوی ضعیف الهضم واتحدار مثل ابدان کاما القوی زود تر متعدر شده و یضم کامل یافته آجزه بدن میشود و بدل مایتحلل میگردد

ه استخراک میلن براي تندرستان و هريضان و ضعيف الفوی وقتيکم بايد و چنانکه شايد ببوجب پدايات مذکوره درست ميتوانکرد

اً اسدُر خرراکُ میآن ۱۰کالین٬ یعن**ی** خامیت مُلیبت مرجود است لهٰذا در معد: ناتوانان ثقالت و *سفلی* و سوء هضی را کم می کند

۱۳—خوراک عولن در حالت شیر دبي طفلان بدایه خورانیدن شیر دایه مي افزایه و بیز شیر صالع پیدا می کند

ٔ ۱۳—خوراک میلن درحالت رضاعت نیز بطفلان می تران داد و بخورانیدن این خوراک طفل نآسانی شیر مادر میگذارد

فهمايش طريقد استعمال خوراك ميلن

١-- براب طفلان شير خوار مدمايد وصيبان نازك مزاج

ا ـــ بیقدار چهارم حَمَّد پینت (لِیم شَیشہ شَیّر خَورِي طَفَلانَ) آب خالص گوفتہ ازاں یک قاشق کلاں آپ درظرف دیگر در آوردن

"مستقدر لیم جَمِید کلان خوراک میلن در آن انداختم بر آتش نرم گذاشته حرکت دیندگا خوراک مهلن در آب میزوج گرده ---بعداز ان بقدار چارم حمد بینت (یعنے شیشم شیر خوری ملبب شیر کار) در آب ما بقی شامل کوده بقدر ضرورت گرم کرده نظال بخورانند

المحجب زياده از سر ماير اطفال

سیبقدار یک چخچه بزرگ خورای میلن گرفاد و چهار جمهد آب خالعی دران انداخاد هسپ دساور بالا مطاوط کرده بدرند دسیده :اس بغدار نیم پینت شیر کار آزاد در خورای مذکور مقبول کرده بقدر ضویری گرم کرده بهنگ



DOUGLAS HERBERT FISH.
(Aged 6 months.)

"39, NIGHTINGALE ROAD,
"CLAPTON, LONDON,
"23rd February, 1889.

F. M. FISH writes:—"He has been fed on Mellin's Food entirely, and proves by his strength and size how excellent Mellin's Food is."

PERSIAN.

ميل نود يعني خوراك مصوعلي داكترمنان براى طفلان و تحبقان فنعف القويل

معقبی که در برای گرم و وطویت تاقی منعفی و منترج بگردن شامت بهین حوراک یعنے میلن فری است زیرا که خوراک موموق مرن بعنے شیرہ تمار سخید و خشک کروہ است و در آب زود ترجل میگردد و نیز در ری عدا کرمیائے باریک بستند



هسبالارقام ديل خوراک مدکور و مومون غور شير گاو ميزوج و مخلوط ندم البدل شير مادر ميگودد و احيفان اقتمان القوي و طفقان شهرخوار را عبدلا ترين خوراکنت که اطفاعي تا بدار تعريف و توسيف آن کرد لا الفاعي تا بدار تعريف و توسيف آن کرد لا الفاعي تا بدار تعريف و توسيف آن کرد لا كِيَّالُومًامَ وَالَى شُرِرِي سَايِرِيلُ ٢٥ عَلَمَ ١٨٧٨.

يُّوَدُّ مُنْهِي بُهُنِ ۽ وُرِي بِيْن مَكِّي مُكُو مُرِيَّشِن جِي جِلْكِي اُوافِجِي خُوراک کَيْلُون لاَ مِ مَن مِفَارِقُ کَ أَهُ اَنْ مُنِي اَلَهِم هِهِرِي نَائِيرُ كَلَي جِي اَوَهُ سُبُ مَن سُنِ خِلَانِ مِن وَقَ نَظُر كُنْ ۽ وُرِي اُو ّمِنَ كَالُ لاَ نَهُائِتُ كُنْنَي لَكُمْالُونُ جِي كُرُهِم مَان جُرِ خِيْرُ مُيْسَرُ فَر تَهْلِي لَدَ لَيْ وَقَتْ اُوافِي لَهِلِي لِي خُوراک مَان جَ خِيْرُ جِي مَرِيْنَ مُفَيْحِد هِيصَوِي مَعْمُهُ عَنْ اَوَّ ۽ وَرِي أَدْ جَانًا تُو جِي مِولِيٌ مُفَنَّرُمِي خُوراکُ مِن جَالَيْ ۽ جُوَّا بِوَرِ تَوَظِّيْنَ مِن وَبُوا جِنِي لَاهَ مُن هُروَّفَ ذَبُو اَوْ جِي طُهِيمُتُ كُي مُوافِقَت بُلِيْنَ آوَ ۽ وَرِي اَنَّ

كُوشُتُ كِي طَاقت ﴿ تَوَا لِأَنِي أَجِي نَيِ

هِي كُوسِي بِانِي مُنَجِّد بِلِ كُل كُرِي وُنَجِّي نِي جِنَّ مِي بُجِنِ جِي خُوراك نَبَار كُرُنِ لَا مِ بُدَ اسان وُرِ انْجُامُ بِوَبِرِتُهُلِي تُومُلُاوُ الْجَي جِن الْي سِي جِي خَوراك نَيَار كُلِي أَدَّ إِنَّ مُنَجِّدٌ جِي "المَكَارَجِ" (اهَاردَارَعَاد، سولائي ساخ مُشَّم نِي شَكِي نَو انَّ طَرح بُرُ مُورِّتُ شَكَر مُنْبَدُلُّ كِلُو لَهِ عِ وُرِي جِن شَي كِي بُهُومُضَّ نَلُو هُرِ سُكِي ۽ وَرِي جِنْ سِي اَنَّ جِي طَائِت بُدَلَجِي مُنْجِّد بُعْشَان يُنَدِّر أَوْ ثَدَ هِنِزِي شِيٍّ كِي هُضَّ خُعَرُقٍ مُنْجِّد عِي صَائِدً لَي لِنَدِّى

َ عَ وُرِي جَنِّ نُهِنِ کِي مِتَ مَنِي بِأُرِيِّ نَا بِئِيْرَ مَانِ جِي آنكِي هِيُ خُوِراک دِّيُنِ لَام حُنَّ كُبْنٍ 50هِه وُّ مُقْبَرَظُ سِبَارِش كُرِيان لَدُ وُرِي مُنكِى بُئِيْن بِورِو أَهِ جِي جِنْ خُرِراک جُو فائدہ بُنُفرِيجٍ عَاهِرُ لَأَيْنَ ٱلْ جُوجُو كُنُو هِيْ وُدَّارِي لِندُو وُرِي مُنجِي إِزَّادِي جِي مُطَابِق هِيْزُو لِلْوَ كَبْنِي

> شلنگ بینس شلنگ بینس نیبت انگلنڈ مُنَیِّہ مِیڪُرِي ناٹلي ا ۹ دُرِی ۴ ۹ خاص نُان وارُر چي ميلن مُيارُ اُبُرُر رُرِّکس: إسلامورد إسلامِک ، پيک هام لنڌي ۽ اس اچھ

ھِبلن جِي 'لِيَا کَيُر كِلِيكُوس يا حَيْرُ جِي خُوراک مَيْڪُوِي باللِي کِي پُر ۽ نِرِي شِلِيُّه مِيلن حِي بُنَالِيلِي خُوراک جِي بِئَانِيُّ مُنَظِّم جَازُ جِيْرٌ خَالِمِي تَاجُر مِلاً يُرْ أَوَّ

جَانِ تُهَالرِـــايِم جِي

مِسْلُر بُرِّئَلِي قَلِيُعَدِيمِسِايقَةَ ــ إِرْ ـ سِي ــ ايس ــ كَلَّيْنَكُلُ شُرِجُّرِي وُرِي بُرِيوُرسِيتِي كَالْيِّجُ عاسِيكُل جِ وَسَ ۽ وُرِي بُونِيُورسِيِّي كَالِّيمِ عاسِينَكُ جِي شُرجُن جِي طُرِنَّان

ربر ر بر بر دوسرد ۱۷ کیسیر ۱۸۷۰ ع

حِيْنُوا بِيراً اِنَّ مُوَانِي بَعِلُو اَوْ حِي حِن مُهِي کِي بِلِي حَ يَسَمُ جِي خوراک هُضَّمَ لُم لَهِنِّي تِي اُنَّ کَ اِنْهِي خُوراک ذَلِي مُون جُانَ نُهَالِي اَوْ ۽ وُرِي کُو هِيَوُرُ وَتَ کُڏُهُم مُر ثَهُوْ اَوْ جِي اُرائِيُّو يُحْ خُوارک تَعِلَي لِي اُوَةٍ مُريِنَ کِي مُوافِي لَم لَهِلِي هِي کُڏهمِ مُر ذَلُو ۽ يُنَّ وَرِي هِنَ اَوْلَ جُو کُهُ وَي ثَوْلَكِي يَهُالِوْ اَوْ جِي نَهُنِ جِي وَاسِطِي هِي خُوراک ثَوْنَ لَعْنَى ۾ فَاضُمْ اَوْ

َ اَوُنْ جَاٰناُن تَوْ جِي اَرَاٰبَجِي ثَيَارُ تَهُتِي لِي خَوراک حِن رَبِّتْ حَيَيْنِ وَرِي قَالُم مُارُولِي مُنْجِيرٌ مُتّهُورٌ تِي فَي نُدَّة انْكِي آنْ جِي رُدَارِي خُر جُعِي وَرِي نَكَادُجِي آمَيْدُ بُرُابِرٌ تَنْدُو

بُركَلِي على ايفعد آرسميسايس

(درست نقل)

اوديپور ۱۲ فيبروري سفر ۱۸۷۲ ع

مسرس كهمي وُرِي كبيني كُماشدُهُ هندُوستان

صاحبان مُن ۔ مِمِراً آنِ ڪُرِي ٻُر ذُجُن بائليَّ ميلن جي تُهِٽي لي نَهُن جَي خُوراک جي مُهيي بان تي ۽ ڏِيجا آئِه قِنَمُ جِي جُهِرِي اَنَّ اَكِيا مُلالي اَ آهِ۔ مُني سِرامُو پروٽُسُنَّ مُرِي کينِني احددآباد لِکيا

کُنُ خُرداک جِي جِيئَرِيَّ تُعَرِيفٌ ڪُرِيَان آورَئِيَّ لَهُورِيُّ اَ بِيْنُ ڪِ جِي مُعَيِّي پِورو يُفَيِّنُ آوَ جِي انَ سِي هِيچِي بُچِي جِي جُان بُچِي اَ کَنَدرو مُعِينِي سُنَجِّد تِرِي هَفَيْنِ تَاءَ جِي اَسَان وَقَ اَنُ مُنْجَا هِ خوراک کُل اُد هُرُفِي اِنَّ سِبِبِ اَکِياً جِي مُوافِق لَد هُفَيِي لَيِيْنَ لَکِي نَذَة وُرِي هِي خُوراک اُونَّ آنَ کِي وَنِي لَدُ ڪُوِي ڳُر ڏيَّهُ مُنَجِّر وُرِي وَةٌ هيشر جِيئِرًا چِنَار يَار تَعِلِيِّ أَةَ

أَيْهِ الشَّالُ مِنْ خُوراكُ أَوْنَ هِيكُونِي مُرْيِفَى كِي جَعَنْجِي عُمْرُ وَهُ وَرُهُنْجِي اَ ۚ وَيَانَ تُو هِيُ مُرْيِفَى كُنُونُهُ عِلَى اللَّهِ وَيَا لَوْ هِي مُرْيِفَ كُنُونُهُ عِلَى اللَّهِ مِنْ يَذَاذُو وَيَا لَهِ عِلَى هِ قِنْمُ جِي وَاثْنُ هُمُّم مُرُدُنَ جُنِي يُفَادِ وَيَعْ وَاللَّهُ مِنْ الْمُونَى كَاللَّهُ عَلَى اللَّهِ عَلَى اللَّهِ عَلَى اللَّهِ عَلَى اللَّهِ عَلَى اللَّهُ عِلَى اللَّهِ عَلَى اللَّهُ عِلَى اللَّهُ عَلَى اللَّهُ عَلْمُ عَلَى اللَّهُ عَلَى اللَّهُ عَلَى اللَّهُ عَلَى اللَّهُ اللّهُ اللَّهُ اللَّهُ اللَّهُ عَلَى اللَّهُ اللَّهُ اللَّهُ عَلَى اللَّهُ عَلَى اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ عَلْمُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ عَلَى اللَّهُ عَلَى اللَّهُ عَلَى اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ عَلَّهُ عَلَى اللَّهُ عَلَى اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللّ

لا ۽ هيزي عميايپ عكورای جي شمرت أج كال جيئوي هندُوستان مُنتِير تيني نميني انزي لَد لَهلِيّ أوّ اُ سُنِّهِي بَيْرِي عَرِنَ لِكِنْدُ أَوْ اَنْ جُو اِستِمالُ اَنْجَى مُرجِي مُواَنِي خُرِي سُكُونًا

اون أبور معب مأدق اكتاب اون البور معب مأدق اكتاب الله عليه المجل المجل على الماري المراجعة المجال المجاور المستعوضة

۱۱۸ اسالعدیة عور به ریشور مارد این تجد و اسطاء آثار کانی او آنجد زیری اداشها دار خرود خورای خو ما اساله بیشور مارد این تجد و اسطاء آثار کانی او آنجد زیری اداشها دارد خورد خورای خو ما به بیشور خوام اسالها بیشور خوام اخور جو انجان جو استور خوارد خادد و رنبی درزی ازارانها این این به بودید چنیو خوام ادائجه ادا که به اند که به اما استور اخور بی خورای میچد ام او و ان خوبه

ظير لللي يعذرك ۾ لوي ڪيرانهي شکا عالي جي ڏاڻه ڪري خصاصيم ڪنوري اندن جي شامي شک عالم جو ماسي ڪيٽين وري پارس ماندادن جي نڏه ڪائد جو ڏينوني جيڙنگل آڪر جان انداد—ايم ڏي جي خرک ڄي

دي ما اسمغم المشمرة

ع بينهم عدرات أس مجموع من داريها عليه أو ده ين أشار عدرات مهم بين من إلى أم داخل أميات الميات اللها مذهب به رميا عدرات منطة أو ع رزي بن بين غررات فين خداه المداشين عواه مياشي عليا مياشية المياهية وي به عبيست من داريها مدافق أو ع دري فعد غري تعاد المدون به داريها الإلى أله أم أو ع بين عدرات فعيد من بهاؤي عدل أفيها دراي فدا مدوند خراجه به عابت مراق ع دري أماله فها فيا

ې چڅه پې مامه اساسه اساسه ای استان کاله ده. و ۱۸۱۱ په د کورل سیدایدسالیدا کاله شیکار والم

جُنِّ مِنْ اللَّهِ اللَّهُ اللَّهِ اللَّهُ ال

الله الألوالي أواليان تلعارسكي أطبيد أسادة شاراك فيها إلى خالولي شهر الالله عضم ألهم أطبية قولها فولها إليه الله المالي ولها، لا جها معاده جها أطبي الي حرزاك أطبير مياشك هي المالية الإيمام الإيمام ألها إلي أليا المالية ألمام المؤلم المؤلم بأله أبها أوليا إلى الماليات بالماليات الماليات الإيمام الإيمام اللها الماليات السابة الماليات و گھجي گڏھم رات جي رفت گجُنِ کي کيارَانِ مُنظَّرَر هُوءِ لُد جَيُلُوي غرور اُڳَ اُوٽُرِي ٽيٽي تيار گجي وُري کياراَ س جي وفت ٽيکڙي کرکس کجي

َ مِسَخَيِّزُ پُيْنَ جِي بَالِيَ وُرِي لُرِي كَأَيِّ حَفَاعَت سِي مَانَ زُمُجِي َ ۽ هُرُوُت شِيشِي کِي لُرَاسَ سِي هُولِي مَانَ کَچِا ۽ کُورِي بِلُو بِيُرُوحُمَّ مُنْجِّدَ اَبِ تَسِيِّنَ اَنَّ کِي لُهُوَّة يَانِي مُنَجِّدُ وُکَجَا بُهُ شَيِّمًا وَکَجَّا نِهُلُو اَوَّ ثُمُ وَارِي وَارِي اِسْتَمَالَ کُرُنَ مُنْجِدً اَجِن

ھ سابھُن جي خلقي خامين جي مواقي آني کي ودا ري گھٽارِي خُوراک ڏيجا ۽ ين حي هي سُجا جگو وروا رو توسوارو اُهين وري ۽ ين بقضي روگي بائوان وري کم قوتن جي واسطي هُر ڪ جو خوراک ميڪري هي گدر جي ڏرا تو کڏرا عبلہ سُجا جُوان جي مثال لين جي سُبُنٽ وُداري خوراک کئين هي گدر جي وُن رُکارين جي سُبُنٽ وُداري خوراک کئين هي قوري پُن گُٽرائين ۽ عقل جي رُساين سي خوراکن کي لَبَارُ کُن هُري پُن گُٽرائين ۽ مِن مُن پُر بيرا ذيجا وَري جُن گُٽرا عبد وري پُن مُن اُه بير رُساين سي خوراکن کي لَبَارُ کُن هُري پُن گُٽرائين ۽ مِن مُن مُن بيرا ذيجا وَري جُن مُن مُن بيرا اُن اُه ۽ وُري جُن مُن مُن بيرا اُن مُن اُه جَنها مُن مُن مُن بيرا اُن مُن اُه بين اُن مُن مُن بيرا اُن مُن اُه بين اُن مُن مُن بيرا يُن بيرا بيرا بيرا مُن مُن مُن بيرا مُن بيرا يُن بيرا مُن وَن بين اُن مُن مُن بيرا مُن بيرا يُن بيرا بيرا مُن مُن مُن بيرا مُن بيرا يُن بيرا بيرا بيرا مُن مُن مُن بيرا يو بي بين بيراک بيرا مُن بيرا بي بيراک بيرا مُن مُن مُن بيرا مُن بيرا مُن بيرا مُن بيرا مين مُن مُن بيرا مين بيرا مُن بي بيرا مُن بي مُن مُن مُن مُن مُن مُن مُن مُن مُن بيرا مُن بي بيرا مُن بير

به سنجِي وَلْتُ غُوراكَ باعوافَق تَندِّي لاَنُ وقت خَبْرُ مُنتِّم قُونِي خُوراك تَبَارِ كُونَ تُولِي ذَّيَ جِي عَرِيقَ مُنتِّم وَالِي خُوراك دِينِ أَوْ أَوْمِي كَبْتِي كُوي وَلِي مَنتِّم وَدَارِي خَراك دِينِ أَوْ أَوْمِي كَبْتِي كُوي وَلَيْ أَلَّا هُمْ سُبِ نَظْمُان خَيْرٌ يُلِي جَي شَيْتِي كِي ماى لَمْ كُرْنَجُو نَاعَت أَوْ أَنُّ اعْرَجِي خَبْرُون مَان تُونِي دَالِّي كَيْ مَان تُونِي دَالِّي كَيْ مَان لَوْنِي دَالِي كَيْ مَان لَمْ كُرْنَجُو نَاعَت أَوْ أَنُّ اعْرَجِي خَبْرُون مَان تُونِي دَالِي كَيْ مُنْكِي مِن لَيْ يَبْرُون مَن مُومًا يَجْه مُن أَخْرى خَلُونُ اكْتَدِ بِنِي تِي تَبْرُون مِن مَن خَلُومًا يَجْه مُولاً يَعْمُ لَيْ اللّهِ عَلَيْ مُنْكِم مِن الْمَرِي عَلْمُ لَوْعَلُونَ اللّهُ سَبِي لَيْ لَكُون اللّهُ سَبِّهِ سِي وَلِي اللّهُ مِنْكُون اللّهُ سَبِي لَيْ لَكُون اللّهُ سَبِّهِ سِي وَلِي الْمَلْ لَوْهُرُجُو مُنْ أَنْوَى أَنْ مُنْكِم لِي اللّهُ لَوْهُرُجُو مُنْ أَنْ مُنْكِم لَا لَكُون اللّهُ سَبِي لَيْ لَكُون لِي اللّهُ لِي اللّهُ لَوْهُرُجُو لَكُون اللّهُ سَبِي لَيْ لَكُون لِي اللّهُ لَوْقُون اللّهُ سَبِي اللّهُ لَالِي لَوْقُولُ لِللّهُ لِلْ لِي اللّهُ لَا لِي لِي اللّهُ لَا لِي لَا لِي لَا لِي لِي اللّهُ لَا لِي لَا لِي لَاللّهُ لِي اللّهُ لِي اللّهُ لِي اللّهُ لِي لِي اللّهُ لِلْ لِللّهُ لِلْ لِي اللّهُ لَالِي لَلّهُ لِلْهُ لِلْمُ لِلْهُ لِلّهُ لِي لِللّهُ لِلْمُ لِلْعِلْمُ لِلّهُ لِللّهُ لِلْمُ لِلْهُ لِلْمُولِلْمُ لِلْمُولِلْمُ ل

پہلی دوری وقتن دین سی دست بگرا ٹیدا کہ میرک مشتیعا ہی ایمی کی اُٹی ٹی آولی کوئی آن میں ڈرامر کیا پہلی بیس خو دست بگرائی تو ۽ رُرِي مهمتو بر پیرا اِن عوائق تندُّو ۽ دُرِي بُوم اسلي مالک ملی تندا ۽ رُرِي بِن خوراک کیان جي بنیا ایمی کي دسته کانا تندا کیمم ان منجا اُد تو کہندي گھر هي سکب ندو ئي ترجي جن وقت نہي کي نامناسب خوراک دُوا ۽ جي في جيمھ انگوں مُنجِد اُمُرابِ مُعلی دُرِي بُد جَنگ خوراک جي پيري خارج ئي وَنيْ اِن کَلَم مِن کَان کُل کُو جي اُل مُوم تَد مَقْبَارَن سي خَبْر جي مَن مُعلی لاَه جي وَرِي عوراک مُنتِر اِستِسال کُرن کَا اکنا جَيْرٌ باني وجي پُٽر کيمي

والمُقرِمُازُولِينَ جَا مِنْ خُيَالُ أَمْنِينَ جِي جَادِي خوراى كُنِيَّ مُكُونَ تِيْ فِي مِنْ كَالُ ملط أَوْ ماسجُد خِنْنُ

ملاً ۽ زائجي

_ ۽ وَرِي نَهْرِي اَدَ يُبْلَثُ بُمِرِي اِنْرُو کاوُ جُو حَيْرُ اَنْ شَجْد رِجِي وُرِي مُقَدَّر سَوورِه ﴿ مُوسُّو كُرِي --_مُان اَنْ جِي نَهُاء عَبْلَى مطلب عَامُر نَهْمِ

وسحُوراى كُوْرِي خَبِنَدى سهدايات مذكور مُغَيْد جِينِكِي أَنْدَاز ذِكَارُتَى أَوْ وَ خَبُّرٌ يِئِنِ حِي نَاتِّلَى بَهُونَهِي وَاسطِي بَس أَوْ عَ فَرِي آثِوى خَراك نوى چار عَهَيْن جِي بَهُن كِي هِيڪُرَى وَقَت جِي كَهَارُاكِن لاَ مَ سَى لَيْنِي كُوم وَ عَوْلِي خُوراك بَهُو هِيكَرَى وَقَت شَيِّهُ لَهُ عَلَي سَكَ ثَرَ نَاقِي مَالِدُو جِي كَهَارُكِن لاَ مَ سَي فِكَافِي ثَيْنِي كُوم وَهِ عَزْلِي خُوراك بَهُو هُوي آنِ عَلَي بِي عَلَيْ مَنِي عَيْنَ مِن كَهَانِ مَ وَكَافِي اللهُ خُوراك عَيْنَ جِي تَالِل مَ وَهُولِي إِنْ يَعْمَلُوا وَلَي كَيْرُكُن جِي تَكُلِي فَلَي يَعْمَلُ وَيَعْ عَلَي كِي جُوراك كَهُون سِي كُونِي وَ خَلَام نَبْلِي نَعْمِن جُوراك كَهُون سِي كَنْدُو أَن مُنْتِي بَهِ يَكِي خُوراك كَهُون سِي الله عَلَي عَلَي عَلَي عَلَي الله عَلَي عَلَي الله وَوَلِي خُوراك كَهُون سِي الله عَلَي حَدَّد الله عَلَي عَلَي الله عَلَي الله وَلَا لَهُ وَلَي يَكُونُ سِي الله عَلَي عَلَي الله عَلَي عَلَي مُوراك خَلْم الله وَلَيْ وَاللّهِ عَلَيْكُ مِن مُواكِي خُوراك خَلْم الله وَلَي الله عَلَي عَلَي الله وَلَي الله عَلَي عَلَيْن سِي الله عَلَي الله عَلَي عَلَي الله عَلَيْنَ الله عَلَي عَلَيْن الله وَلَهُ عَلَي الله عَلَي عَلَي الله عَلَي عَلَي الله عَلَي عَلَي عَلَيْن الله عَلَي عَلَي عَلَي الله عَلَي الله عَلَي عَلَي عَلَي عَلَي عَلَي الله عَلَي عَلَي عَلَي عَلَي الله عَلَي عَلَيْنِ عَلَي عَلَي عَلَي عَلَيْنَ الله عَلَي عَلَ

٣-خُرِراَى کُلِي کُوسِي کُپِيسخُراَک وُدارِی تُهُدِّي ذَيْنِي نَرَ کُپِي اِنْ سُبِّب جِي نَهَا يِسُلَهُ لَكُّ کُنْ وُرِي اِنْ کُنَا مُعِيدُ بِلِي نَرَ اَوْ خراک ذَيْنَ کُنَا اَکِيا مَانِ هُومِ بَادائِي هُوم تَهُورُ بِي نِهارِيهِهُو کُوسُو هُوء نُدُو مُنْهُر کِي جُنَائِي اِخْتُى هُوءِ نَذَة شَجِي وَاجِي جِنْزُو کُوسُو کُپِي اُوزُرو اَوْ کُلُهم کُومُبُنْ سِي وَارْ لَكِي مَلْلَكِي مُنْفِر خُطَائِي وَاجْنِ سِي كُنُون تَعْدُر نِهُو اَوْ تَدُةْ جِنْ كُان مُنْظِّر بِا خَيْرُ بِاللِّي مُنْظِر هُو أَنْ عِي كُوسِي اِنِي سِي بِعِرِه هُوءَ رُدِي مُنظِّر حَتَى مُنْ رَحِي كُو سُو كِجِي صَحْوراَى وَاحْ خَيْنِ وَلَتَ كُوسُونَ ٠ سمطن قُودٌ (خوراک) هنچی انام جی دائن کی جهبرُو کیائی طور سی نم بنائی آه

﴿ حَمِيْكُ فُرَةٌ ﴿ خَرِرا ﴾ لِيُوْجِبُ ٱ مُولُ عِلْمُ جَي وُرِي لِينَكَ جَي هُرِيَّةً هَيُّنَاوِنَ مِي چُنگا جُوْرُوي
 ﴾ كَمُون جَي أَسُ جَيْ تَهُى إَوَّ

« - مِيلَنْ فُودٌ (خوراَ ی) پاني مُنعِدٌ وِجُنِ سِي کُرِي اُرِّجِي تِي وُرِي َ اِنْ مُنعِيدٌ بُعوسِي وُدِي کَا إِنِي -

. - اسمجلن فهد (خرراک) چُکُلُ کِی وُرِي تُواناً اَنَّ عَرِج مریض کو کم قُوت مُارُومُ جُعِيرِي چُونُمُو اَنَّ جِعِبْرِي هُمَّ سَان هَدَايَات مَذَكَرَ جَي تَهار كُرِي شُكرِنَ كُلُّ

السميان فُودٌ (خوراك) مُنَعِيُّرُ ٱلْقَالِمِينِ(كَهُار) هِي خَامِيت نَبِّيْنِ هِي نامِتُ وُهِي ناتوان مأُرُولُي كي

جِي مُبَدَّةٌ كِي سَيِّنِي وَّرِي لَا هِلَيْنِي كُمْ كُرِي تِي مِن مُبَدِّةً كِي سَيِّنِي وَرِي لَا هِلَيْنِي كُمْ كُرِي تِي

ورسمعِلِق تُودٌ (خوراک) کم قوت مُارُوُلُنِ وَرِي نَدُّي بَهِنَ لَا ءَ كَارُخَيْرُجِي فاضَمُ کي وُدارِي ڪُنگل آة ١٣ -- معِلَن تُودٌ (خوراک) جِي مُان جَو خِيْرٌ وُ دِيثَوُ وَرِي وُدُارِي فَالدُّو لُخَيْنَدُلُ أَةٌ

١٤ ــ عيلن فُودٌ (حوراک) کي هيڪُرِي وقت طُنَيِّر عان جِي خِيْرُ جِي بِيزُو ذُلِي سُکُرن ٿا وُرِي اِسُّ ص حَان جُر خِيْرُ جِيْدُانَ لاَءِ کُنُو اَسَانُ اَيْ

ميلن جي تُهلي لِي ڪرراک وا پُري جي نسبت فهيايش

إسراري مُهِينَے جي اندر مُور جي خَيْرٌ بِيْنِ وَادِيٌّ لَازُكَ مِزَاجٍ لُجُنِ لَامِ أَوَّ

اَسَيَّاوُ پَيْسَهُ (خِبْرُ بِدُِنِ کِي اَدَ بَالِلَّيْ) يَانِي جِي کَچِي اَنَ فَتَجَا مِيڪُرُو جُنْهُو بَهْرِي لُنَّذِي رِكَانِي مُنْجَر جي

٣-- دُرِي اُد وَدُو جُهُ يُهِ مِيلَن تُوكَّ مُعَاجِّر وِجِي ۽ دُرِي تَبَوَدِي كَانَدِي مُلِي رُكِي هُرِي هُرِي هُرِي 'يافِنَ مِجِي ۽ پُن بِلَاءِ بِلَاءِ بِانِي مُنْجِرُهِ مِلَّالِبِيُر

﴿ ﴿ ﴿ وَإِي يُومٍ ۚ بِأَوْبِينَتُ (خِيْلُ يُبِنِ جِي باللِّي يُقِرِي ٱلْمُوَّ ﴾ كَاذٍ خِيْرُ فَا جُو ۽ وُدِي نَاتِي تَهو مُلِنَّ بانِي آلَّ شَنْظِ وَجِي هُدِي تُعَدِّدُ تُوسُوْ تُونِ

المسلوي مُهونِ كُنَا وُتِي مَيْرُ جِي أَيْنِ وَم

إسْمِيْشُورُ وُ وَدُيْثُمْ يَعُونِ مِعَلَى فَوْدٌ كَنْجِي ٤ وَرَى جِعَرُو ٱلِيَّا جُعُوا أَهَا جَنُوا خَارُ وَتَهَا كِانِي شَيْجُ



"27A. Sloane Street.

"Mrs. A. Stoecker encloses a photo of her little girl who was fed entirely on Mellin's Food for more than a year, and she has never had an illness "

SINDHI.

هِيُ أَجُن أَوْ مُأْرُوا لُن لاء عيان جِي تُهْلِي أَوْ خوراك

م ن ن با مرغوب و اوزیت سی در تبدیر الثمانا أولا في خوراك أة جي بيكرو مِلَّانِ سِي عَانِ جِي حِيْرُ جُهِيْرُ سَارُو تَهِلَي تُرْ ، MARK مِلَّانِ سِيعَانِ جِيْرُ أَنَّامٍ جُرُقُ أَةَ تَدُّهُ بِأَسِي سُنَّةٍ، وُوُنَا طَافَتَ مَارُوُ نُنِي وُرِي خِيرُ بِينِ وَ آرِي () فَنَجِّرُ كَيْنِ مِن كُرِي وُبِيجِي زُرَ إِنَّ فَنَجِّرُ كَيْرُوا بُجُن كِي مِمْ كَعْنِي سَارِي خَرِلِكِ ا آوَانَ غُرَجُ ﴿ كَيْنِيمُوا اللَّهِ اللَّهِ اللَّهِ اللَّهِ اللَّهِ ا مَّا الْكُلُّ شَعَامٌ أُعِينِ



ودومُو خَيْرُ جِي كَاوُ خَيْرُ بِأَكِي النَّجِ وُدًا حُكِماً بأمي ثن إن خرراك جي تعرب

هيلن جي گُهي لي خورای اُپين کي وُري باتوان ماروکن لاء کُني ساري اَلَّ مَن باست اَلَّ وسدميان فود (خوراک) خِيْرُ مُنْجِّ، مِلَان سِي مِيُ تَدُيْنَهُ تَدُرْتِي عَوِراک جِيْ جِهِيرُو ثِنْدُو وَرِي تِنام الْكُرُ فَالِي قُولُهُ المَسْتِيدَةُ وَ وَرِي يُرووش لَاء إِنَّ جِبِطِنِّي اجزا فُرُزر أَيْنَ سِنَّ أِن طُنَهُم سَبِ لِي سُوجُود أَيْنِنُ ٣ سيهاني فُوَّةٌ (خَوْرَاك) مُنَيِّم جِيتِي اجزا أُمِيْنُ سِي إِنَّا خَرُحُ أَمِيْنَ جِي فَوزاً خُوْنُ جِيمُرِي سِيَّ مِلْنِ فَأَ فِعَلَى قَرَةً ﴿ شَرِرَكَ ﴾ قُواُمِفُنِ كَيْمَالِي وَوَرِي مِلْمُ مُوجِرِداتِ سِي دُرست غَالُونَ فَقُها أَبْرَابُنُ

جان تيانر ــايم. ـدي

مسائر برائي ۽ 1 ايم 3 ي ايف کار سي ايس کلنيا) صرجري اور يو نيور سيٽي کالهے هسپتال کا صدرس اي۔ يونيور سيٽي کالے يا۔پُٽل ے صرجن کی طرف ہے

هه وميول استريت سد تاريخ ١٥ كيسبر ١٨٧٠ ع

کي دار ايما برا بي که هن نهون کو کئي څهر کي خوراک هغم دين يوټي ټهي اولکو تنباري خوراک ديکے مين نے ارتکي جان نهاڻي بي اور ايما ايک وقت بهي اثقاق دين يوا که تنهارا عرق ليکے جو خوراک بغالي وه مريض کو مرافق در پڙي اور پهر ناهه پميشم پايه ٽبوت کو پينهي پي کر دوون ڪ لگ بهه خوراکه مقري اور باشم بي

۔ میں حانظ ہوں کہ نیاری گیار کردہ خوراک حسوقت عابیوں اور عام لوگوں میں مشہور ہو جائیگی۔ اوسوقت ٹیکر اوسکے زیادہ خوج اور نکاوکی امید وائن پرجائیگی

مرکلی هل ایف آرسی ایس

ادرست نقل)

هموس کیبپ اور کیبی گباشتگ بدوستان. جاهیان من – میربانی فرما ے دو درن بولل میان کی بنائی پولی بچون کی خوراک کی میرید نام برروانہ کرو اوسی قسم کی جیسی آپ ے ۔ آج بینچی تھیں۔۔۔سرنامہ بولس اور کیبنی احمد آباد لائمنگ

اس خوراک کی جنتی تعریف کررن ٹھوڑی ہی کھونکہ صحیح یقین ہی کہ اس سے صبرے سے کی جارہ چیں ہی گذشتہ مہیدے میں قریب تین ہفتون تک ہمارے پاس اسمین کی خوراک بلکل نہ تھی اس سبیہ اول سے عواقق اچہ کو ددھضمی:ہونے لگی پھرسے یہ خوراک میں اوسکو دینے لگا اور دو ہی دن کے عرصہ میں پھر وہ ہیدائر کے جیسی تندرست ہوگئی

المال پہر خوراک میں ایک مریص کو جسکی میر دہ برس کی ہی دیتا ہوں یہ سریقی بہت بیبار تھا اور اپنا ملاج کرنے کے لئے صبحے بلایا تبل اسکے پندرہ روز تک کسی قسم کی خوراک اوے مضم نہیں ہوتی تھی جس دن سے میں نے یہ خوراک اوسے دیس شروع کی اوس دن سے اوس شکایت سود مضمی کی نہیں ہوئی اور بہت کرے صبحے بھروسا ہی کہ اسی سے اوسکو صبحت ہوگی وہ قوم کا جین ہی اسائے گوشت کا شوریا کھا نہیں سکتھ اور ایسی حالقوں میں تبھاری بنائی ہوئی خوراک گرا ایک بہایت آبیٹی اام چی میرسے سلاح خانہ ے لئے

اس مجاہب خرراک کی شہرت آج کا جتنی متدوستان میں ہوتا چاہل اوتنی بیدن ہوتی ہی ہم سمجہکی چو کچہر میں نے تصریر کیا ہی اوسکا استعمال تم اپنی مرضی ے موافق کرسکتے ہو

مون آیکا محب ماري

متعبیہ آر ڈناو کفگٹ ہام ایم دی۔۔۔سرجی کیاٹو ہام والی سوری ۔۔ اپریگ ۲۴ سفر ۱۹۷۸ع

پھڙو مير سه 'چون اور دوسرسه کم سن مريفون ۽ جنگر تيپاري خوراک کيا ۽ کي مين ۽ سفارگي کي تهي اون پر اوسنے کيا تائيز کي وہ سب مين ۽ باريک بيني سے زير نظر کي اور مين اس بات کو بہايت غرشي سے لکھکا ٻرن کر جسوقت مان کا دوده، موسر نين پرتا ٻي اوسوقت تنهاري بنائي پوڻي خوراکہ مان ڪرورده، ڪيوني مين ايگ مده شي ٻي اور مين جانفاون کر تبام معنومي خوراک سے بيگرين بهي

جبکر وہ برابر احتیاط سے دیجاتی ہی تب میں نے بارہا دیکھا ہی کہ طبیعت کو موافق پڑتی ہی اور اوس سے فراً گزشت کو طاقت و توانائی ہوتی ہی

یہر گرم پانی میں بالکل مفاوق ہوجاتی ہی جس نے لیے کی خوراک ٹیار کرنیکا کام بہ آسائی اور فوراً بانیام پاتا ہی فلوہ اسکے جس آٹے سے کہ خوراک بنا ٹیائٹی ہی امیوں کے ''اسلارج'' (اہاردار مادے) یہ سیولت عضم ہوسکیں باسطرح اسکو ہر صورت شکر مقدل کیا ہی اور جس چیز کو بچہ حضم کردیدں سکتا ہی اور جس سے اوسانی خالف بدنی کو نتمائی ہوتا ہی ایسی چیز کو حضم کرنے میں ارسکر محنت کم بڑتی ہی

''جُسِ 'بھوں کو ہائیہ 'پر یعنے بغیر ماُس ے 'پریرش کرنا ہی اونکو یہہ خوراک دینے ے لئے میں مہ تاکیدہ ور مظہوط بنفارش کرتاہوں اور صحح بقین ہی کہ جس خوراک ے قایدے نفدیج خابر ہوئے بات اولگا غیر بہت ہی زیادہ پوجائیگا اور میری رای ے مطابق ایسا ہیں ہونا چاہئے 3 جسودت خوراک ناموائی بڑے۔ اوسوقت دودھہ میں یا طراک تیار گرل یا خیراک دینے میں یا طراک دینے میں ابنا ہو کے بیا بار بار کے گریائہ میں کسی نوع کی بیول برای ہیں یا ایک وقت میں بہت سی خوراک دینے میں آئی ہی یا بار بار دیگئی ہی یہ مسید نقس دودھہ بینے کی برتل کی نامفائی کے باعث وقوع میں آئے ہیں اس امر کی نافت اور اگری ہی خصوصاً جہانکہ خوراک تیار کرنے گائے۔ اس اس میں ہوتا ہی بید آخری خطا اکثر ہوا کرتی ہی خصوصاً جہانکہ خوراک دیار کینکا کام یکفلم لرکروں کے ہائیہ میں ہوتا ہی بید سے بی کہ بچوں کو اکثر بیباریاں اسی سبب سے جا گئی ہیں۔

پہلے تہروے وقت تک خوراک کے دینے سے دست بللے ہوئے ہیں ٹوابسا نہیں سمجھنا کہ ایج گو مؤور ا ہوا یا اور خ سے گھبرانا نہیں کیونکہ پہلے بچہ کا دست پلا ہی ہونا جاہئے اور ایک یا دو دن میں پھروہ بھسٹور ہر جاتا ہی کی بار ایسا ہوا ہی کہ بہر شوراک کیا نیکے بعد بچکو سخت دست ہوئے ہیں اور اوسویے سے بھ بوائی ہی یہ واقعہ اوسوقت ہوتا ہوں کہ جسوقت بچہ کو نامناسب خوراک دایجاتی ہی جو انٹریوں کے الدر بعربی رہتی ہی اور بوسیدہ ہوکے خوراک کے ساتیہ خارج ہرجائی ہی اگر یہی بات رہی تو ہرشیاری سے دودہ ہو کی تری اوال لینا اور خوراک میں استعبال کرنے کے بیشتر بہت ما پائی 18اکے بند کرنا

اکثر لوگرن کا بہر خیال ہی کہ جاڑی خوزاک بہت مقوی ہوئی ہی بہر بات غلط ہی مان کا دود تہ بالگائا ینلا ہوناہی لیکن حالت تندرستی میں صدہ خوراک ہی۔حاڑی شی بالٹل عضم لیوں ہوئی اور طاقت آور بھی نہیں اس ایک میلن کی بنائی ہوئی خوراک میں ایک بہر فایدہ ہی کہ جب آبال جائی ہے، لیہ لہایت صفوی رقیقشی سجائی ہے جو مان کے دودہ کے جبسی بتلی ہوئی ہی

"استانوان آدسون اور جو مان اپنے بجبر کو دودھر ہلاتی ہیں ان کے لئے ہدایات اسابک نزا چیچا علیہ یا ربادہ میلن موڈ لینا اور نوے چیچے گرم پانی میں اوسکو صفاوط کرنا اسے پہرایک بنالہ بھر گائی کا ٹھندا دردھ اوسین ملانا۔ اتنی خوراک یا اس سے زیادہ حذبی جائی ہن بھر میں کی دار کرے کہانا۔ میان کی ننائی ہوئی خوراک کے ساتھر دودھم ملاے بھا تو عاد مصم ہرنا ہی تر سحت نیا بید کے مگر اصطرح استعمال کرتے پر بھی باموافق پڑے تب اوسیون زیادہ پائی ڈائے پلٹا گرنا یا فقط پانی ہی میں میان کی خوراک کو گلانا

جو مان اچ 'جون کو دوده، بلائي بي اربکے لگے میان کي بنائي ہوئي حوراک ایک بڑي بعدت ہوگي هُموماً اوس خالت میں کہ وہ اپني عمولي حوراک حالي چاهلے اولني کها نہيں سکتے ہيں۔۔گائي خوراک گ کہائے ہے اوبکا دودہ، بڑھنا اور رہادہ نابدہ خش ہوتا ہي

شفارسس ناسه

بطبین ے بادشاہ کے مشہور ڈاکٹر ایرسٹس اسٹیمر کی طرف ہے۔ ہ جارج اسٹریٹ یا نوور اسٹریٹ سازور سے ایرین ۱۷ می ۱۷۰۰

جو خوراک تید بچوں کے لئے بنائی ہی وہ دوسری تیام خوراکوں سے جن سے میں واقف ہوں انقیا درجہ کی عبدہ ہی اور پیہ خوراک نچ خواہ تندرست حواہ صریفی ہری دوبوں کے طبیعت کے موافق ہی اور بہت کرے نیایت کم میں نچنے کے لئے ثابال نہیں ہی جس خوراک میں پیر تیام بائیں ہوں اوسکی زیادہ تعریف کرنا صرور نہیں اور شجعے یقین کامل ہی کہ آج کال اسکی ریادہ خواہش اور خرج ہی

ايمنس المنمور ابم دي

فیرنگئی حدرل اور حیرائی ڈفاخانہ ے دایہ گری کا حکیم جدوبی لنڈن ے شاعی شفاخانہ کا ماضی خدیب اور ہارس مانگرلین ے تبدخانہ کا 3پیوٹی میڈیکل آضر جان ٹیانر الیم 3ی کی طرف ہے

الفرية برس ١١٥ نيونكل كازرسم سوتهم ابسته -- ١١ جانبواري ١٩٦١ ع

جو خوراک دوسرے لوگوں نے اچوں ے لئے بنالي ہي اولئے ساتھر ٹیہاري تیار کردہ خوراک کا مقابات کیا نو میري کامل تشفي پولي کر اچوں ے بھی میں جاھي سے طاقت و ڈواٹا لي بيدا پر اپنے مدہ خواص ر طاقت ابشی تاثیرات لباري تیار کرڈہ غذا میں ہی دوسروں کي خوراک میں بیش لہذا میں ہیشہ اسکر ہوسري پرقسم کي خوراک پر ترجیم دیتا ہیں ٣٠ ستين مهيميز مع الزول محمروال بتجون كي الله

و ۔ آپکا جوا جمها بہرے عیلن فرد لینا اور حسب عذکور بالا اروبکر جاربڑے جمعے پائی میں "غلوطکرنا جسیعے لادعا بینک بہرے اتنا کاکی کا تازہ دودہ اوجہان ڈالنا اور بقدر فہرڑی گرم کرنا

٣-والدورن كي لئي مفيد مطلب آكابي

ہستخوراک کنٹی جائے سہدایات مذکور میں جوامقدار بلائی ہی وہ دودمہ بینے کی بوٹل بھرنیکے اسے ہیں اور ارتنی خراک کین ہوئیے اگر وہ شام کیے ہیں ہور اردی کی اگر وہ شام خوراک ابھہ ایک وقت کے کہانے کے لئے کافی بوگی اگر وہ شام خوراک ابھہ ایک وقت میں کہا نہ ہوگی اگر وہ شام خوراک ابھہ ایک وقت میں کہا نہ میں بھرتا اور وہ پوری پر خاتی ہی اور کہانیکے قابل نہیں رہتی ساوس خوراک کو دود مر بینے کی بوٹل میں بھرتا اور وہ پوری پر کی بھر کی بھر کی بیا اگر قبل اسکے وہ سیر ہوگیا تو زیادہ کہائی کے جبر لیس کرنا سے زیادہ خوراک کی الیہیں بھر آنا کانی کرے تو سیجھنا کہ بقدر حاجت اوسنے کہا لی بی سیجسوقت بوٹل کی خوراک پوری بھرجارے تا کہ بوٹل میں بوٹل ہوں کی خوراک پوری بھرجارے تب ترا کی خوراک بوری بھرجارے اس بوٹا ہی جس سے اولکے ذریعہ سے اولکے بیٹ میں ہوا بھرجائی ہی جس سے ارتکو اخیر کو بہت نے آرامی ہوئی ہی

سسدودهم کسطرے استعمال کرنا سیم ابایت ضرور پی کم خوراک تیار کرتین جودودهم استعمال کیا جاتا ہی اوسکو جاتا گرم کرنا ضرور پی اوس سے زیادہ نبین کرنا زیادہ گرم کرنیے ثقیان پوجاتا ہی ابدا پہنایا ہا اوس سے زیادہ نبین کرنا زیادہ گرم کرنیے ثقیان پوجاتا ہی ابدا پہنایا تا تا اسکو سرہ میں اوسکو سرہ جاتا ہی ابدا پرکانا ہا تا تا ہوئے کہ دودہ میں ایک چیٹی بیر نائی کارنیت کی پرکائی ڈالئے چند ثانیہ تک پائنا بعد استے خوراک بھری ہوئی ہوئی ہوئی ہوئی اور نہر سے شود مضمی کے آثار ہویدا ہی اوس حالت میں اوسپری تھرزی سی ٹری اوٹار لینا سیمفے وقت بلغال اپنی املی خوراک کیا ہو دودہ کا ایک کیا گراچہ کی گی میں کہتی ہو گرے تو خوراک دیتے وقت بلغال اپنی پریاک ہوئی اور خب تک کائی کا تازہ دودہ مل سے تب تک کی قائی کا تازہ دودہ مل سکے تیا کہتی توجودودہ بنیر کیا گیا کہتے دودہ بنیر کیا دیا کیا گراہ کیا گراہ ہوں کا اگر بہتی کیا گراہ دودہ بنیر کیا دیا کہتے ہوئی کیا کہتا ہوئی ہوئی ہوئی بین کیا گراہ دودہ بنیر دورہ دوم سکرے تیار کیا کہ شکر کی زیادتی سے بھنے کے لئے بہتر ہی

"استوراک کننی گرم چاهگر سخوراک بہت صرد دینا نہ چاہئے کیونکہ سے اوسکو پیند لیبن کی آور اولئے لئے مقید بھی قیدن کی تبل مان نے یا دائی نے ٹیوزا پیکے دیکینا اگر گرم ہی لیکن مغید کو تسکیل ایکن کی تبل مان نے یا دائی نے ٹیوزا پیکے دیکینا اگر گرم ہی لیکن مغید کو تسکیل اسٹون میں اگر مہب تاغیر یا ماڈوٹ میں غط پرجائے سے بہت ٹیفتا پرجائے تہ ہو جارے تب وہ جس بوٹن یا دودھر پینے کی بوٹل میں بواوسکو گرم پائی سے بھرے ہوئے ہوئن میں چند دقیقہ رکھکے گرم کرنا سخوراک رات کے وقت گرم ٹیبن وکھنا اگر راد کے وقت ایم کی کہا تا گر اور کھانا کی مقدر میں تو جانی ضرور ہو اونٹی صرد تیار کرنا اور کھائیکے تبل بقدر ضرورد کرون

* سن ودھر پہنے کی ہوتل اور نلی احتاط سے مانے رکہنا ہے وقت کے کہائے کے بعد ارتکو ہروش بھے ماک کرنا اور دیو ڈالفا اور باردیگر کام میں لائے تک اوسکو سرد پانی میں رکھنا جائے ۔۔ دو بوئز رکھنا بیٹر بی تا کہ باری باری ہے اسلمبال کی جاریں

8 سیمتصوں کے شلقے خاصیتوں کے موافق اوسکو کم زیادہ شوراک دینا جاھئے سے کئنے ایک دی۔ لئموست قواقا اور تری الجمع ہوتے ہیں اور بعضے دریش ناتران اور کم قرت لہذا پر ایک کو خوراک ایک ہر سقدار کی دینا فیورسکی بنیت کو خوراک ایک ہر سقدار کی دینا فیورسکی بنیت دوگئی خوراک بیا ہا اس لئے مان اور دائی کو لازم بی کہ اپنی دانائی اور مقل کی رسائی سے خوراک ثیار کریں اور کیا گئی ہوا کہ دریا گئی ہوا کہ خوراک اور اتنی میرے بچہ کو دروو گہنتے بعد پہر اور مینا مگر باربار اور اتنی میرے بچہ کو دروو گہنتے بعد پائی گئی ہوت کہ لائی ہیں اور جب بچہ بڑا ہوتا جارے خوراک بقدر ہے جاتا گرایک رقت کر اور فیورس خوراک کیا گئی ہوتی میں باتا کی ہوت کو دروو گہنتے ہیں ہوت کو دروو گہنتے ہیں ہوت کو دروو گہنتے ہیں اور خوراک گئی ہوتی خوراک لیک اوسیقور پانی اوسیس ملانا اور خورو کی خوراک گئی ہوتی خوراک گئی ہوتی خوراک گئی ہوتی کی دوراک گئی ہوتی خوراک گئی ہوتی کی دوراک گئی اور درجہ کی مقولی ہوتی کو باتی بازیک ہوتی اور درجہ کی ایک اور درجہ کی ایک اور درجہ کی ایک کی ایک کی دوراک کی دوراک کی ایک اور درجہ کی دوراک ک

URDU OR HINDOSTANI.

معیوں اور ناتوان لوگوں کے لکے میل کے بنائے جئی عوراک

TAR

فلے کے بیرہیہ ہوراک بائی 15 ہو گے ائی ے بللے دردہ، میں ملائے سے مان ے رومہ جوسی مدہ برجاتی ہی اور ناتران MARE پہارہ کوں اور شیر خوار مجوں ے لئے بہر عبدہ فوراک ہی ایسا بڑے بڑے نامی اطبارن نے سکی تعریف کی ہی

گرم یا مرطوب ہوا ہے تم بگڑ ہاوے وا بھی حوراک ہی کیرنکہ یہم ایک صوکیا یا ہوا اقام کا عرق ہی جو ہائی میں 3 النے سے سل ہوجاتا س اسبوں باالکل باریک کیڑے بیوں

مبلن کی مذائی ہوئی خوراک مجرن اور نا توان لوگون کے لئے کیون عمدہ ہے اس بابت ، سمیلن فرد (غوراک) دوده، مین ما این تو وه بعیم قدرتی غوراک ے مائند مکیل خوراک بنهائی ہے۔ اور تمام بدن کی تقویت اور پرورش ے للے جو جر اجزا ضرور بین رہ سب اسبین عوجرہ بین

٢ -- ميلن فرد (خوراک) مين هِر اجزا يين وه اسطوري بين كه فررًا شون كي زنده دهار بي عليها لم بين حسميلي فرة (خوراك) قوامه كيبيالي اورملم موجودات ٤ درست قانون بموجب برابر لهاركي بلي بي حسمیلن فرد آثے کی بنی ہوگی لہیں ہی اور اسین اسگاری ہمنے کلپ بھی بھی ہی

ه ... ميلن فود (خوراک) مين گنے کي شکر بين بي

* -- ميلن فود (خوراک) انام ے کے دانوں کو گھلکر خام طور سے بنالی ليين ہي ا سمیان فرد (خوراک) بعوجب اصول علم اور لیباک ے طریقہ موافق پرشیاری سے عبدہ جو اور گیہوں ک آئے کی بٹالی ہوئی ہی

ء سميلن فرد (خوراک) ياني مين دالنے سے گهل جائي بي اور اسبين بهرسن اور کسي قسم کا تقبل مارہ نيين بي و سمولن کی بنائی ہرلی خوراک کی بنارت میں تندرست ادمی ے بدن مین "اسلارع" ایادار اشیا س خالت میں عصم ہوتے ہیں ویسی خالت رکینے سے اس خوراک کے دانوں میں جو ایاردار مادے ہیں سبين يهيريهار بركيا بى

۱۰ ساعیلی فود (خوراک) تندرست اور توانا اسیطرم مویض و کم تون گدمی کر جیسی چاهلے اس مورب بيرجب ہدایات مذکور تیار کی جا سکتی ہی

11 - ميلي قرة (خوراک) مين إلكافئين (كهار) كي خاميث برنے ع باعث رہ ناتوان لوگوي ع معدد كي سهالی اور ندهشبی کم کرتی پی

١٢ ــ ميلي أود (خوراك) كم قون أدفي أور جهوتي بهون عالم عالى عدودهم عياضيدكو زيادة كولي بي ۱۳ سیمیلن فرد (خرراک) سے مان کا دودہ، بڑھتا اور زیادہ فایدہ بغش ہوتا ہی

ا سمیلن فرد (خوراک) کر ایک ای رقت میں مان کے دودھ کے ساتیہ دے سکتے ہیں اور اوس سے مان کا دوده، نہ آسانی چہری جاتا ہی

میلن کی بفائی ہوئی خوراک استعمال کرنے کے تسبت فہمایش

پسستین مہینے کے اندر عمر کے شیرخوار اور نازک مزابے پانچوں کے لائے وسيار يهشت (دوده، يبنے كي كدهي ودل) ياني لينا أرسيون بي ايك برا جمها ليك بهوڻي ركابي مين 1 الله جسيمر آهما نڙا جمعا ميٽن ڦوڌ اوسين ڏالٽا اور دهيس آنے پر رکوڪ پڌيا ۾ پائي مين ماڌ ديٽا حسبمه اسکے پاویہنت (در دهر پینے کی بوئل بہرے اتنا) کاکی کا نازہ دودهم اور بائی رہاہرا پائی - اوسیان شامل کرے بقدر ضروریه گرم کرنا

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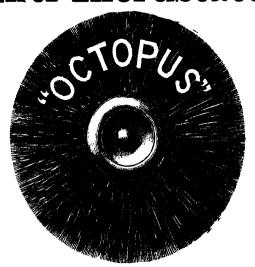
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AUTOMATICALLY COLLECTS the "FUR" in Kettles. Kitchen Boilers, and Pipes.

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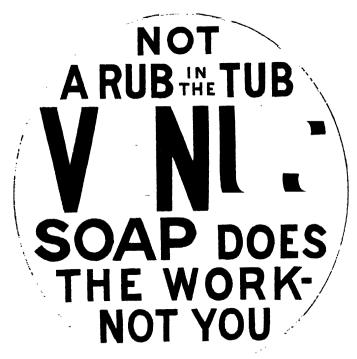
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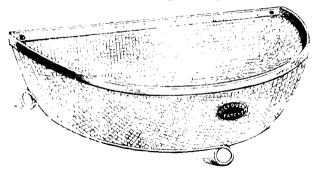
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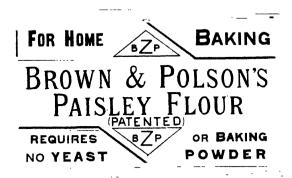
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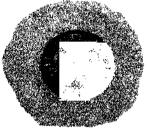
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बर्लीन, अग्रिल १४, १८९३,

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हस खोराकके नमुने मेशर्स अच. जे. रुस्तमजी कंपनी, कराची, आंफिससें पिल सकेंगे.

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مستر ميلنس جي عرض پتاندڙ هي سرٽيفڪ تي جي ٿو تر هن صاحب ٻارن الا جو کاڌو ناهيو آهي ننڍن شهزادن يعني شهنشاه ۽ مهاراڻيءَ جي ٻارن آندو آهي ۽ انهيء مان هينکي تمام گهڻو فائدو پهتو آهي ۽ ريار جي مهاراڻيءَ جي دريار جي مهر.



من کاةي جا نمولر ميشرس ايچ - جي - رستمهي ڪمهندا ۔ ڪمهندا ۔

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એક અમુલય ખાત્રી પત્ર.

જરમનીની શાહનશાહબાનુ તરફથી,

શેહેર ખરલીન, એપરેલની તા૦ ૧૪મી સને ૧૮૯૩.

ખીઠ મેલીનની માંગણી ઉપરથી આએ ખાતરી પત્ર તેને આપ-વામાં આવે છે કે, તેણે બનાવેલા બચ્ચાંઓ માટેના ખારાક શાહનશાહ અને શાહનશાહબાનુનાં નાહાના શાહજાદાઓનાં ઉપયાગમાં લેવામાં આવેલા છે, અને જેથી તેમને અતીશય ફાયદા પાંહાે-યા છે.

શાહનશાહબાનું અને મહારાણીનાં દરભારની માહાર.



ચ્યા ખારાકના નમુના પ્રેશરસ એચ. જે. રૂસતપ્રજી કુા૦ ની કરાંચી એાફીસમાંથી મલશે.

Samples from Messrs. H. J. RUSTOMJEE & Co., Kurrachee; and from Messrs. LATHAM, ABERCROMBIE & Co., Bombay.

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بولن مورخه ۱۰ اپريل سنه ۱۹۳ ع

مسعر مانس ساهب کي درخواست سي يهر ، نامر انکو ديا گيا هي کر جو خورات انهون ني بهجون واسطي بنايا هي وه خورات شهدشاه اور شهدشاه بانون شهزادون کو کهلايا گيا هي اور اس خورات سي نهايت هي قائده پهونهها هي

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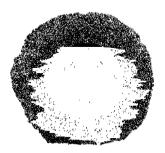
ஜெர்மானியர் தேசத்து மகா<mark>றாட்கியை</mark> பொருத்திய சக்கிரவர் த்தினி **பவர்களிட**த்திற் பெற்ற ஒப்பேட்டு செல்னுகற்கு அறிய தற்சாட்சி பத்திரம்.

மொழிபெயர்ப்பு.

பொலின் 1533வில் ஏப்ரலம் 144

மெல்லின்ஸ் துரையவாகள் கேட்டுக்கொண்டபடிக்கு அவரால குழத்தைகளுக்கு தயராசெயது வரப்பட்ட உணவானது மகாமாட்கி மைதங்கிய சக்கிரவாததியாராலும், சககிரவாததினியாராலும், அவ்ச் களுடைய குமாரர்களாகிய இனவரசர்களாலும் உபயோகப்பயித்தப் பட்டு, அதனைல் அவர்கள் விசேஷ்க குணங்கள் கண்டிருப்பதால் அவருக்கு இந்த நற்சாட்சிபத்திரம் கொடுக்கப்பட்டது.

இவவுணவு வேண்டியவாகள் தெக கழக்கா யிருக்கப்பட்ட பெக் காம் பென்கிற தேசத்தில் இருக்கும் கெலலினவ் உணவு யெற்திச சாவேக்கு யெழுதினுல அவர்களுக்கு மாதிரியும் அனுப்பப்படும்.



மகாமாட்கிமை பொருந்திய அரசாணி வுடையவும் பட்டத்த கெவியினுடையவும், மந்திராலோஜன சடை முக்கிணாயும் சொங்க வாட்டது.

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